

DENON

BLU-RAY DISC RECEIVER

RBD-X1000

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur

Manuale delle istruzioni

Manual del usuario

Gebruiksaanwijzing

Bruksanvisning

SAFETY PRECAUTIONS



CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

"CLASS 1
LASER PRODUCT"

- ADVARSEL:** USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
- VAROITUS!** LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄMTTÖMÄLLE LASERSÄTEILYLLE.
- VARNING:** OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.



ATTENZIONE: QUESTO APPARECCHIO E' DOTATO DI DISPOSITIVO OTTICO CON RAGGIO LASER. L'USO IMPROPRIO DELL'APPARECCHIO PUO' CAUSARE PERICOLOSE ESPOSIZIONI A RADIAZIONI!

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.



CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose.

Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

ATTENZIONE:

Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro.

La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

WAARSCHUWING:

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.

De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIGHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.

Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THIS PRODUCT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

□ **NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENSTE GEBRUIKEN / OBSERVERA ANGÄENDE ANVÄNDNINGEN**

WARNINGS	WARNHINWEISE	AVERTISSEMENTS	AVVERTENZE	ADVERTENCIAS	WAARSCHUWINGEN	VARNINGAR
• Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Handle the power cord carefully. Hold the plug when unplugging the cord. • Keep the unit free from moisture, water, and dust. • Unplug the power cord when not using the unit for long periods of time. • Do not obstruct the ventilation holes. • Do not let foreign objects into the unit. • Do not let insecticides, benzene, and thinner come in contact with the unit. • Never disassemble or modify the unit in any way. • Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains. • Naked flame sources such as lighted candles should not be placed on the unit. • Observe and follow local regulations regarding battery disposal. • Do not expose the unit to dripping or splashing fluids. • Do not place objects filled with liquids, such as vases, on the unit. • Do not handle the mains cord with wet hands. • When the switch is in the OFF position, the equipment is not completely switched off from MAINS. • The equipment shall be installed near the power supply so that the power supply is easily accessible.	• Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Decken Sie den Lüftungsbereich nicht ab. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. • Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. • Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden. • Das Netzkabel nicht mit feuchten oder nassen Händen anfassen. • Wenn der Schalter ausgeschaltet ist (OFF-Position), ist das Gerät nicht vollständig vom Stromnetz (MAINS) abgetrennt. • Das Gerät sollte in der Nähe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann.	• Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Ne pas obstruer les trous d'aération. • Ne pas laisser des objets étrangers dans l'appareil. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Ne pas recouvrir les orifices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation. • Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées. • Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. • Ne pas manipuler le cordon d'alimentation avec les mains mouillées. • Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS). • L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible.	• Evitate di esporre l'unità a temperature elevate. Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. • Maneggiate il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Non coprite i fori di ventilazione. • Non inserite corpi estranei all'interno dell'unità. • Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. • Non smontate né modificate l'unità in alcun modo. • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. • Non posizionate sull'unità fi amme libere, come ad esempio candele accese. • Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie. • L'apparecchiatura non deve essere esposta a goccioli o spruzzi. • Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi. • Non toccare il cavo di alimentazione con le mani bagnate. • Quando l'interruttore è nella posizione OFF, l'apparecchiatura non è completamente scollegata da MAINS. • L'apparecchio va installato in prossimità della fonte di alimentazione, in modo che quest'ultima sia facilmente accessibile.	• Evite altas temperaturas. Permita la suficiente dispersión del calor cuando está instalado en la consola. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Mantenga el equipo libre de humedad, agua y polvo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • No obstruya los orificios de ventilación. • No deje objetos extraños dentro del equipo. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Nunca desarme o modifique el equipo de ninguna manera. • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas. • No deberán colocarse sobre el aparato fuentes inflamables sin protección, como velas encendidas. • A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. • No exponer el aparato al goteo o salpicaduras cuando se utilice. • No colocar sobre el aparato objetos llenos de líquido, como jarros. • No maneje el cable de alimentación con las manos mojadas. • Cuando el interruptor está en la posición OFF, el equipo no está completamente desconectado de la alimentación MAINS. • El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.	• Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • De ventilatieopeningen mogen niet worden geblokkeerd. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Voorkom dat insecticiden, benzene of verfvendunners met dit toestel in contact komen. • Dit toestel mag niet gedemonteerd of aangepast worden. • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed of gordijnen. • Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. • Houd u steeds aan de milieuvorschriften wanneer u gebruikte batterijen wegdoet. • Stel het apparaat niet bloot aan druppels of spatten. • Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. • Raak het netsnoer niet met natte handen aan. • Als de schakelaar op OFF staat, is het apparaat niet volledig losgekoppeld van de netspanning (MAINS). • De apparatuur wordt in de buurt van het stopcontact geïnstalleerd, zodat dit altijd gemakkelijk toegankelijk is.	• Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. • Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. • Utsätt inte apparaten för fukt, vatten och damm. • Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid. • Täpp inte till ventilationsöppningarna. • Se till att främmande föremål inte tränger in i apparaten. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. • Ta inte isär apparaten och försök inte bygga om den. • Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar eller gardiner. • Placera inte öppen eld, t.ex. tända ljus, på apparaten. • Tänk på miljöaspekterna när du bortskaffar batterier. • Apparaten får inte utsättas för vätska. • Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten. • Hantera inte nätsladden med våta händer. • Även om strömbrytaren står i det avstängda läget OFF, så är utrustningen inte helt bortkopplad från det elektriska nätet (MAINS). • Utrustningen ska vara installerad nära strömuttaget så att strömförsörjningen är lätt att tillgå.

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its frame work Directive 2009/125/EC for Energy-related Products (ErP).

• ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Gemäß den Bestimmungen der Niederspannungsrichtlinie 2006/95/EG und EMV Richtlinie 2004/108/EG, der Verordnung (EG) Nr. 1275/2008 der Kommission und deren Rahmenrichtlinie 2009/125/EG zu energieverbrauchsrelevanten Produkten (ErP).

• DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. Selon la directive 2006/95/EC concernant la basse tension et la directive CEM 2004/108/EC, la réglementation européenne 1275/2008 et la directive 2009/125/EC établissant un cadre de travail applicable aux produits liés à l'énergie (ErP).

• DICHIARAZIONE DI CONFORMITÀ

Dichiaro con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. Facendo seOSDto alle disposizioni della direttiva sul basso voltaggio 2006/95/EC alla direttiva EMC 2004/108/EC, alla norma EC 1275/2008 e alla relativa legge quadro 2009/125/EC in materia di prodotti alimentati ad energia (ErP). QUESTO PRODOTTO E' CONFORME AL D.M. 28/08/95 N. 548

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siOSDentes estándares: EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. De acuerdo con la directiva sobre baja tensión 2006/95/CE y la directiva sobre CEM 2004/108/CE, la normativa CE 1275/2008 y su directiva marco 2009/125/EC para productos relacionados con la energía (ErP).

• EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de voorzieningen van lage spanningsrichtlijn 2006/95/EC en EMC-richtlijn 2004/108/EC, de EU-richtlijn 1275/2008 en de kaderrichtlijn 2009/125/EC voor energieverbruikende producten (ErP).

• ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder: EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Uppfyller reglerna i lågspanningsdirektivet 2006/95/EC och EMC-direktivet 2004/108/EC, EU-förordningen 1275/2008 och ramverksdirektivet 2009/125/EC för energirelaterade produkter (ErP).

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A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal. This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften. Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen. Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften. Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur. Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles. Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio. Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore. Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici. Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siOSDendo los reglamentos de reciclaje de su localidad. Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales. Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siOSDendo los reglamentos de su localidad relacionados con los desperdicios químicos. Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften. Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op. Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd. Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

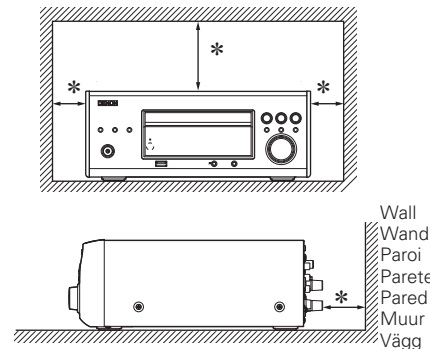
OBSERVERA ANGÅENDE ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser. Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.



Pb

CAUTIONS ON INSTALLATION VORSICHTSHINWEISE ZUR AUFSTELLUNG PRÉCAUTIONS D'INSTALLATION PRECAUZIONI SULL'INSTALLAZIONE EMPLAZAMIENTO DE LA INSTALACIÓN VOORZORGSMAATREGELEN BIJ DE INSTALLATIE FÖRSIKTIGHET VID INSTALLATIONEN



- * For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.
 - More than 0.3 m is recommended.
 - Do not place any other equipment on this unit.
- * Stellen Sie das Gerät nicht an einem geschlossenen Ort, wie in einem Bücherregal oder einer ähnlichen Einrichtung auf, da dies eine ausreichende Belüftung des Geräts behindern könnte.
 - Empfohlen wird über 0,3 m.
 - Keine anderen Gegenstände auf das Gerät stellen.
- * Pour permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire.
 - Une distance de plus de 0,3 m est recommandée.
 - Ne placez aucun matériel sur cet appareil.
- * Per una dispersione adeguata del calore, non installare questa apparecchiatura in uno spazio ristretto, come ad esempio una libreria o simili.
 - Si raccomanda una distanza superiore ai 0,3 m.
 - Non posizionare alcun altro oggetto o dispositivo su questo dispositivo.
- * Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.
 - Se recomienda dejar más de 0,3 m alrededor.
 - No coloque ningún otro equipo sobre la unidad.
- * Plaats dit toestel niet in een kleine afgesloten ruimte, zoals een boekenkast e.d., omdat anders de warmte niet op gepaste wijze kan worden afgevoerd.
 - Meer dan 0,3 m is aanbevolen.
 - Plaats geen andere apparatuur op het toestel.
- * För att tillförsäkra god värmeavledning får utrustningen inte installeras i instängda utrymmen, som t.ex. en bokhylla eller liknande.
 - Mer än 0,3 m rekommenderas.
 - Placera ingen annan utrustning ovanpå den här enheten.

Getting started

Thank you for purchasing this DENON product. To ensure proper operation, please read these owner's manual carefully before using the product. After reading them, be sure to keep them for future reference.

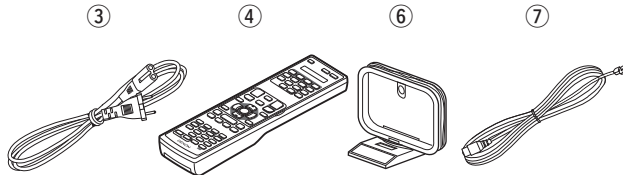
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Accessories

Check that the following parts are supplied with the product.

① Owner's manual	1
② Service network list	1
③ Power cord (Cord length: Approx. 2 m)	1
④ Remote control unit (RC-1153)	1
⑤ R6/AA batteries	2
⑥ AM loop antenna	1
⑦ FM indoor antenna	1



About this manual

❑ Operation buttons

The operations described in this manual are based mainly on remote control operation.

❑ Symbols



This symbol indicates a reference page on which related information is described.



This symbol indicates a supplementary information and tips for operations.

NOTE

This symbol indicates points to remember operations or function limitations.

❑ Illustrations

Note that the illustrations in these instructions are for explanation purposes and may differ from the actual unit.

Main features

High quality amplifier stressing sound quality

Equipped with a 70 W + 70 W (6 Ω) high-quality amplifier circuits.

Direct Play for iPod® and iPhone® via USB

Music data from an iPod can be played back if you connect the USB cable supplied with the iPod via the USB port of this unit, and also an iPod can be controlled with the remote control for this unit.

Weight and Dramatic sound

The board and circuit configuration has been redesigned to achieve lower impedance. Since stable current is supplied to the power amp and other sections, it is possible to realize as much as 70 watts of power.

“Simple & Straight” circuit design for sound purity and free of coloration

This unit gives you high sound quality based on the “simple & straight” concept. Circuitry is uncomplicated, signal paths are short, and all adverse influences on sound quality have been minimized.

Playback of MP3 and WMA files

Supports playback of discs and USB memory devices on which MP3 or WMA files are recorded. The unit's display can display the title of the track and the name of the artist of the current track.

Low standby power consumption

Designed with the environment in mind, the unit consumes just 0.5 W while in standby mode.

Cautions on handling

• Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

• Power is supplied to some of the circuitry even when the unit is set to the standby mode. When going on vacation or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

• Image persistence (image burn-in)

Do not leave the still images of the disc menu, the unit menu, etc., displayed on the TV screen for long periods. This can result in image persistence (image burn-in) on the screen.

• About Condensation

If this unit is moved from a cold place to a warm place, or installed in a room subject to rapid temperature rise from a heater, etc., condensation (dew) may form on the internal parts of the unit (operating parts and lenses).

If used in this condition, this unit will not operate correctly and damage may result. If condensation is formed on the unit, leave this unit for 1 to 2 hours with the power off before use.

• Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If that occurs, move the mobile phone away from this unit when it is in use.

• Moving the unit

Be sure to remove a disc, turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system equipment before moving the unit.

• About Care

- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not be used.

• Sufficiently ventilate the place of installation

If the unit is left in a room full of the smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup could get dirty, in which case it will not be able to read the signals properly.

About discs

Inserting a disc

- Set the disc with the labeled side facing up.
- Make sure the disc tray is fully open when inserting the disc.
- Place the disc horizontally in the tray, aligned with the tray guide.



"NO DISC" is displayed if a disc that cannot be played back on this unit is loaded and the disc tray reopens in the case of some discs.

NOTE

- Only load one disc at a time. Loading two or more discs can damage the unit or scratch the discs.
- Do not use cracked or warped discs or discs that have been repaired with adhesive, etc.
- Do not use discs on which the sticky part of cellophane tape or labels is exposed or on which there are traces of where labels have been removed. Such discs can get caught inside the player and damage it.
- Do not use discs with special shapes, as they could damage the player.



- Do not push the disc tray in by hand when the power is turned off. Doing so could damage the set.

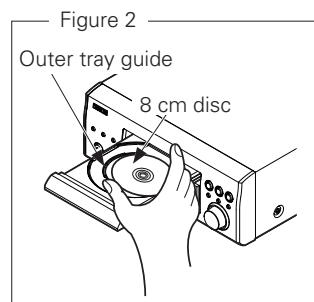
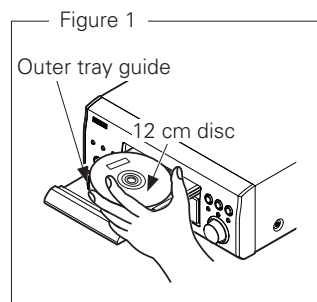
Holding discs



Do not touch the signal surface.

Loading discs

- Place the disc in the tray, label side up.
- Make sure the disc tray is fully open when inserting the disc.
- Place the discs flat, 12 cm discs in the outer tray guide (Figure 1), 8 cm discs in the inner tray guide (Figure 2).



- Place 8 cm discs in the inner tray guide without using an adapter.



"NO DISC" is displayed if the disc is loaded upside-down or if no disc is loaded.

Cautions on handling

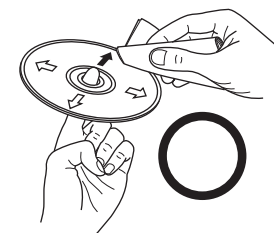
- Do not get fingerprints, oil or dirt on discs.
- Take special care not to scratch discs when removing them from their cases.
- Do not bend or heat discs.
- Do not enlarge the hole in the center.
- Do not write on the labeled (printed) surface with ball-point pens, pencils, etc., or stick new labels on discs.
- Water droplets may form on discs if they are moved suddenly from a cold place (outdoors for example) to a warm place, but do not try to dry them off using a hairdryer, etc.

Cautions on storing discs

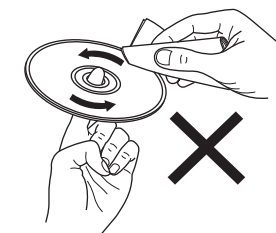
- Be sure to remove discs after using them.
- Be sure to store discs in their cases to protect them from dust, scratches, warping, etc.
- Do not store discs in the following places:
 1. Places exposed to direct sunlight for long periods of time
 2. Dusty or humid places
 3. Places exposed to heat from heaters, etc.

Cleaning discs

- If there are fingerprints or dirt on a disc, wipe them off before using the disc. Fingerprints and dirt can impair sound quality and cause interruptions in playback.
- Use a commercially available disc cleaning set or a soft cloth to clean discs.



Gently wipe the disc from the inside towards the outside.



Do not wipe in a circular motion.

NOTE

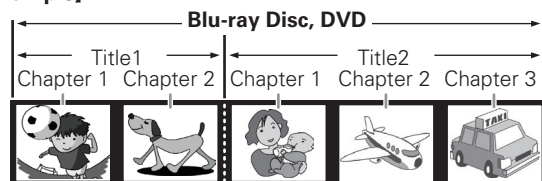
Do not use record spray, antistatic agents, benzene, thinner or other solvents.

About discs and files

BD-Video, DVD-Video

BD-Video/DVD-Video discs are divided into several large sections (titles) and small sections (chapter). These sections are all allotted numbers, called the title numbers and chapter numbers.

[Example]



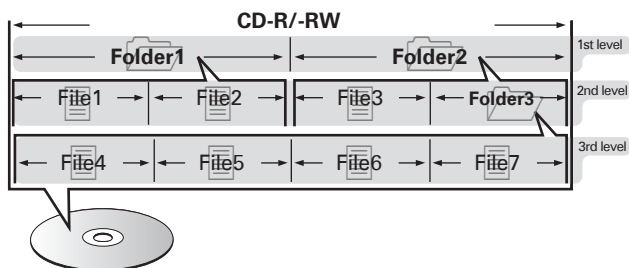
CD

CDs are divided into several sections (tracks). These sections are all allotted numbers, called the track numbers.



File

MP3/WMA/JPEG/WMV/AVI files recorded on CD-R/RW are divided into large segments (folders) and small segments (files). Files are stored in folders, and folders can be placed for storage in a hierarchy. This unit can recognize up to 8 hierarchies of folder.

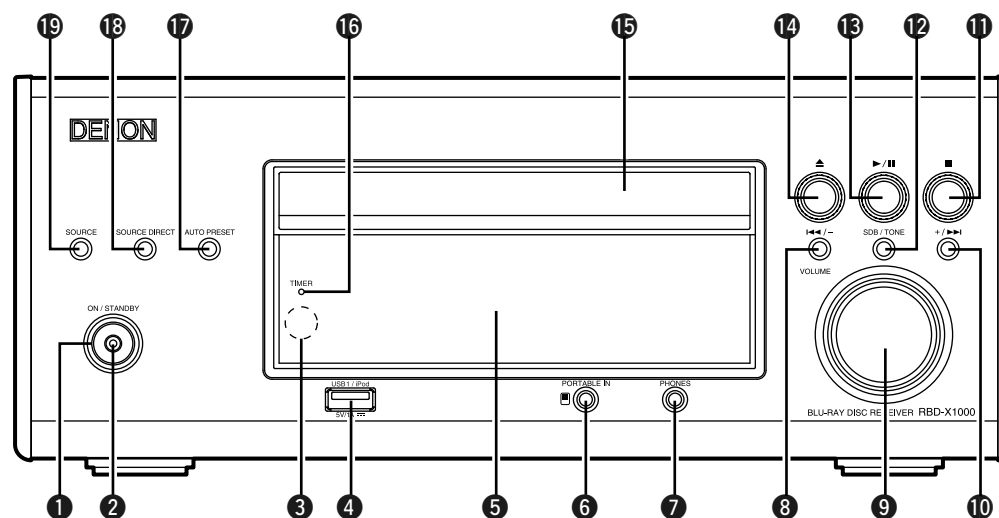


When writing MP3/WMA/JPEG/WMV/AVI files on a CD-R/RW disc, set the writing software's format to "ISO9660". The files may not play properly if they are recorded in other formats. For details, refer to the instructions of your writing software.

Part names and functions

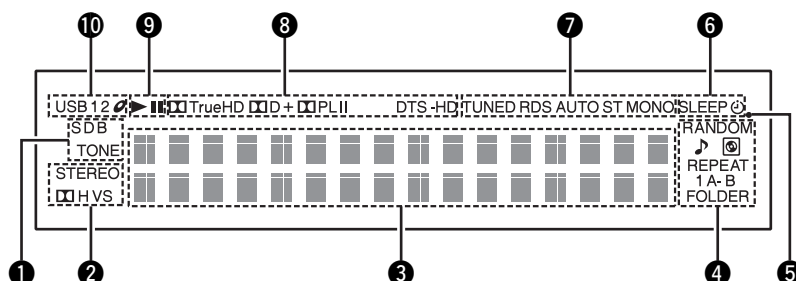
For buttons not explained here, see the page indicated in parentheses ().

Front panel



- | | |
|---|--|
| 1 Power operation button (ON/STANDBY) (12, 46) | 10 Forward-skip/search button (I>>I) (18, 46) |
| 2 Power indicator (12) | Preset/Tuning + button (22) |
| 3 Remote control sensor (7) | 11 Stop/Band button (■) (17, 21) |
| 4 USB1/iPod port (25) | 12 SDB/TONE button (13) |
| 5 Display (5) | 13 Play/Pause button (▶/II) (17, 40) |
| 6 PORTABLE IN jack (25) | 14 Disc tray open/close button (Δ) (15) |
| 7 Headphones jack (PHONES) (13) | 15 Disc tray (3) |
| 8 Reverse-skip/search button (I<<I) (18, 46) | 16 TIMER indicator (39) |
| Preset/Tuning - button (22) | 17 AUTO PRESET button (21) |
| 9 Master volume control knob (VOLUME) (13) | 18 SOURCE DIRECT button (13) |
| | 19 SOURCE button (12) |

Display



1 Tone indicators

SDB: Lights when the super dynamic bass function is set to "ON".

TONE: Lights when the tone (bass/treble) is being adjusted.

2 Surround mode indicators (20)

3 Information display

Various information is displayed here.

4 Play mode indicators

Lights when the random playback mode or repeat playback mode is used.

5 Remote control signal reception indicator

6 Timer operation indicator (39)

7 Tuner reception mode indicators (21)

These light according to the reception conditions when the input source is set to "TUNER".

ST: In the FM mode, this light when receiving analog stereo broadcasts.

TUNED: Lights when the broadcast is properly tuned in.

AUTO: Lights when "FM AUTO" is selected.

RDS: This light when receiving RDS broadcasts.

MONO: Lights when "FM MONO" is selected, or when an analog monaural broadcast is received.

8 Decoder indicators

These light when the respective decoders are operating.

9 Playback mode indicators

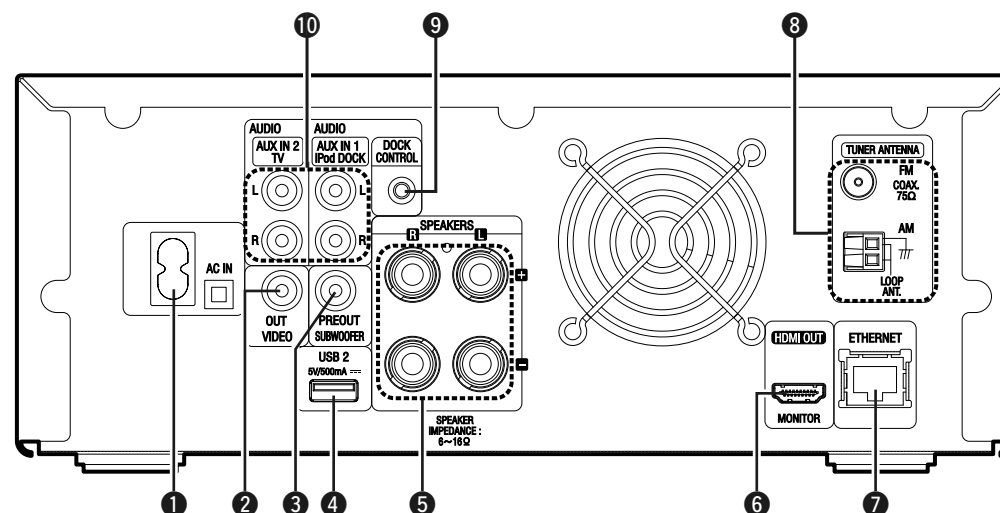
▶ : During playback

|| : During pause

10 USB/DISC indicators

Lights when a disc or USB memory device is inserted.

Rear panel



1 AC inlet (AC IN) (11)

2 VIDEO OUT connector (9)

3 PREOUT connector (SUBWOOFER) (8)

4 USB 2 port (25)

5 Speaker terminals (8)

6 HDMI OUT connector (9)

7 ETHERNET connector (26)

8 FM/AM antenna terminals (10)

9 DOCK CONTROL jack (24)

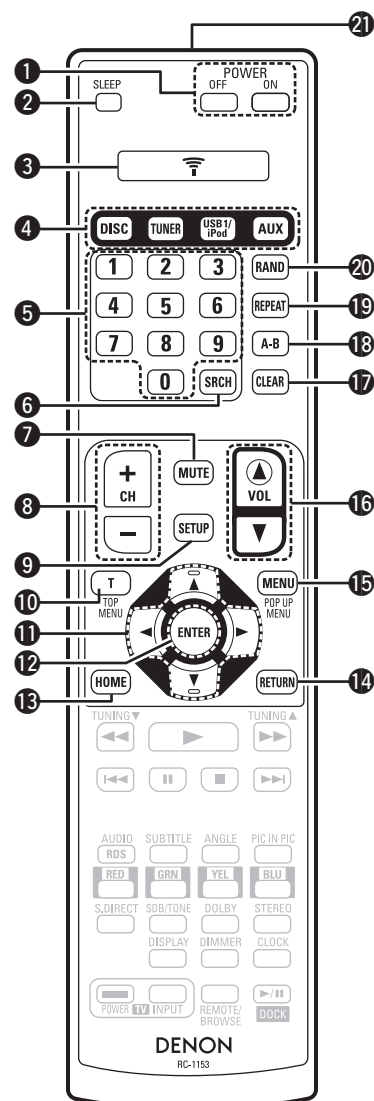
10 AUX1/AUX2

Analog audio connectors (9, 10, 24)

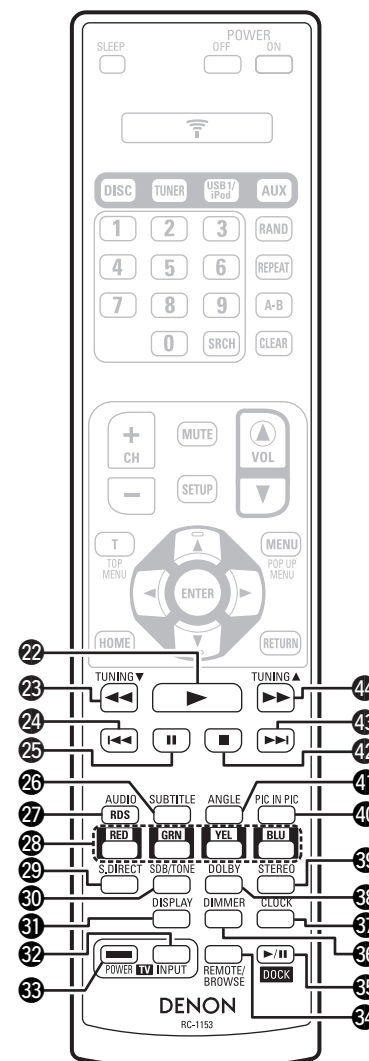
NOTE

- Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
- Do not put your finger or foreign object in the fan opening. Doing so could cause injury or unit failure.
- While the fan is operating, the faint fan noise may be generated.

Remote control unit



- ❶ Power buttons
(POWER ON / OFF)..... (12, 14, 39)
- ❷ SLEEP button..... (39)
- ❸ Signal transmission indicator
- ❹ Input source select buttons..... (12)
- ❺ Number buttons..... (22, 35, 37)
- ❻ Search button (SRCH)..... (18)
- ❼ MUTE button..... (13)
- ❽ Channel buttons (CH + / -)..... (22)
- ❾ SETUP button..... (14, 21, 22, 24, 38 – 40)
- ❿ TOP MENU button (T)..... (15)
- ⓫ Cursor buttons (△▽◀▶)..... (34 – 37)
- ⓬ ENTER button..... (34 – 37)
- ⓭ HOME button..... (31, 34)
- ⓮ RETURN button..... (34 – 37, 39)
- ⓯ POP UP MENU button (MENU)..... (15)
- ⓰ Master volume control buttons
(VOL ▲▼)..... (13)
- ⓱ CLEAR button..... (18, 21, 22)
- ⓲ A-B button..... (19)
- ⓳ REPEAT button..... (19)
- ⓴ RANDOM button (RAND)..... (19)
- ⓵ Remote control signal transmitter..... (7)



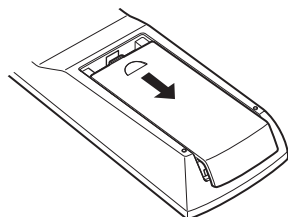
- ⓶ Play button (▶)..... (17, 18, 27 – 29)
- ⓷ Fast-reverse button (◀◀)..... (18)
- Tuning down button (TUNING ▼)..... (21)
- ⓸ Reverse-skip button (◀◀)..... (18)
- ⓹ Pause button (⏸)..... (17)
- ⓺ SUBTITLE button..... (20)
- ⓻ AUDIO/RDS button..... (20, 23)
- ⓼ RED/GRN/YEL/BLU button
- ⓽ Source direct button (S.DIRECT)..... (13)
- ⓿ SDB/TONE button..... (13)
- ⓾ DISPLAY button..... (15, 23, 28, 29)
- ⓿ TV INPUT button..... (28)
- ⓿ TV POWER button..... (28)
- ⓿ REMOTE/BROWSE button..... (27, 28)
- ⓿ DOCK Play/Pause button (▶/⏸)..... (27, 28)
- ⓿ DIMMER button..... (13)
- ⓿ CLOCK button..... (14)
- ⓿ DOLBY button..... (20)
- ⓿ STEREO button..... (20)
- ⓿ Picture in picture button (PIC IN PIC)..... (16)
- ⓿ ANGLE button..... (19)
- ⓿ Stop button (■)..... (17)
- ⓿ Forward-skip button (▶▶)..... (18)
- ⓿ Fast-forward button (▶▶)..... (18)
- Tuning up button (TUNING ▲)..... (21)



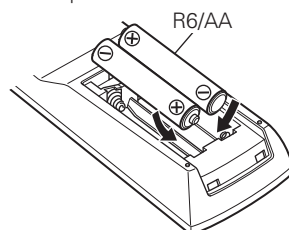
Using ❸❷ and ❸❸ requires registration of preset codes (see page 40 "Registering preset codes").
The default setting is "Sony".

❑ Inserting the batteries

- ① Slide the rear lid in the direction of the arrow and remove it.



- ② Load the two batteries properly as indicated by the marks in the battery compartment.



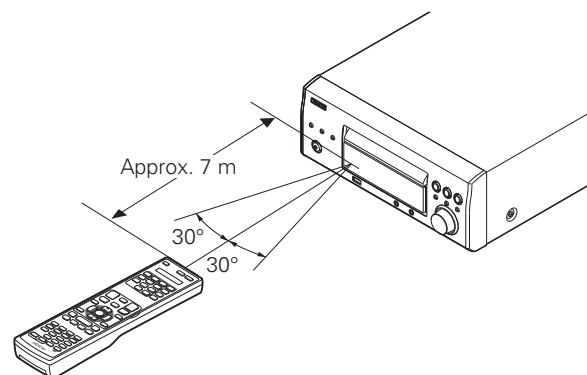
- ③ Put the rear cover back on.

NOTE

- Replace the batteries with new ones if the set does not operate even when the "remote control" is operated close to the unit.
- The supplied batteries are only for verifying operation.
- Be sure to insert the batteries in the proper direction, following the $\oplus$ and $\ominus$ marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery with an old one.
 - Do not use two different types of batteries.
 - Do not attempt to charge dry batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in a fire.
 - Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid leaks, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the "remote control" if it will not be used for a long time.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

❑ Operating range of the remote control unit

Operate the remote control unit while pointing it at the remote sensor.



NOTE

The set may function improperly or the "remote control" may not operate if the remote control sensor is exposed in direct sunlight or strong artificial light such as a fluorescent or infrared light.

Basic connections

This section explains how to connect speakers, TV, set-top box, antennas and power cord.
For other connections, see the sections below.

- ❑ **Connecting a control dock for iPod** (🔗 page 24)
- ❑ **Connecting an iPod or USB memory device to the USB1/iPod port** (🔗 page 25)
- ❑ **Connecting a USB memory device to the USB2 port** (🔗 page 25)
- ❑ **Connecting a portable audio player** (🔗 page 25)
- ❑ **Connecting to the network** (🔗 page 26)

Connecting speakers

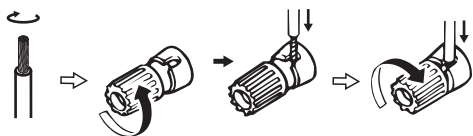
Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the unit, and be sure to connect the channels and polarities correctly.

Cables used for connections

Audio cable (sold separately)	
Pin-plug cable	
Speaker cable	

Connecting the speaker cables

Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



NOTE

- Use speakers with an impedance of 6 to 16 Ω. The protection circuit may be activated if speakers with an impedance other than specified are used.
- Connect the speaker cables so they do not stick out of the speaker terminals. The protection circuit may be activated if the wires touch the rear panel or if the + and – sides touch each other (🔗 page 43 “Protection circuit”).
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

The protection circuit is be activated in the following situations:

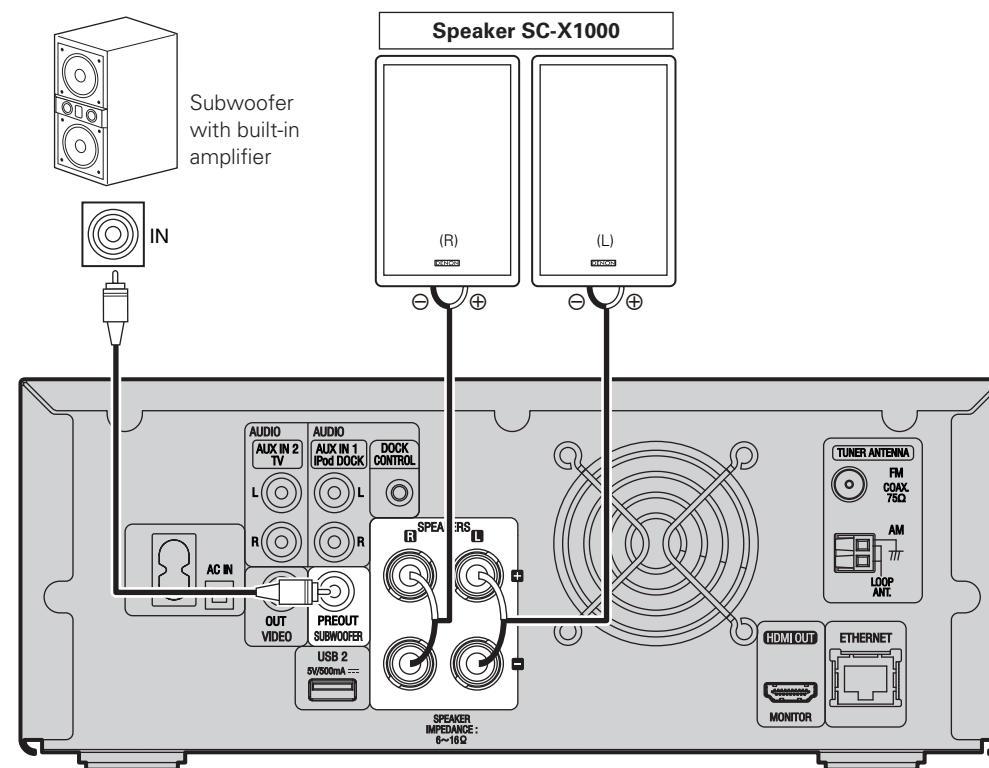
- If the speaker cable wire touches the rear panel or screws or if the speaker cable wire touches the speaker cable's + and – sides are touching
- If the surrounding temperature is extremely high
- If the inside of the amplifier gets hot to extended use at a high output

If this happens, unplug the power cord, then check the connections of the speaker cables and input cables. If the unit becomes very hot, wait for it to cool off and improve the ventilation around it. After doing this, plug the power cord back in.

If the protection circuit is activated even though there are no problems with the ventilation around the unit or in connections, the unit may be damaged. Turn off the power and then contact a DENON service center.

NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the owner's manual of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power supply cords together with connection cables. Doing so can result in humming or noise.



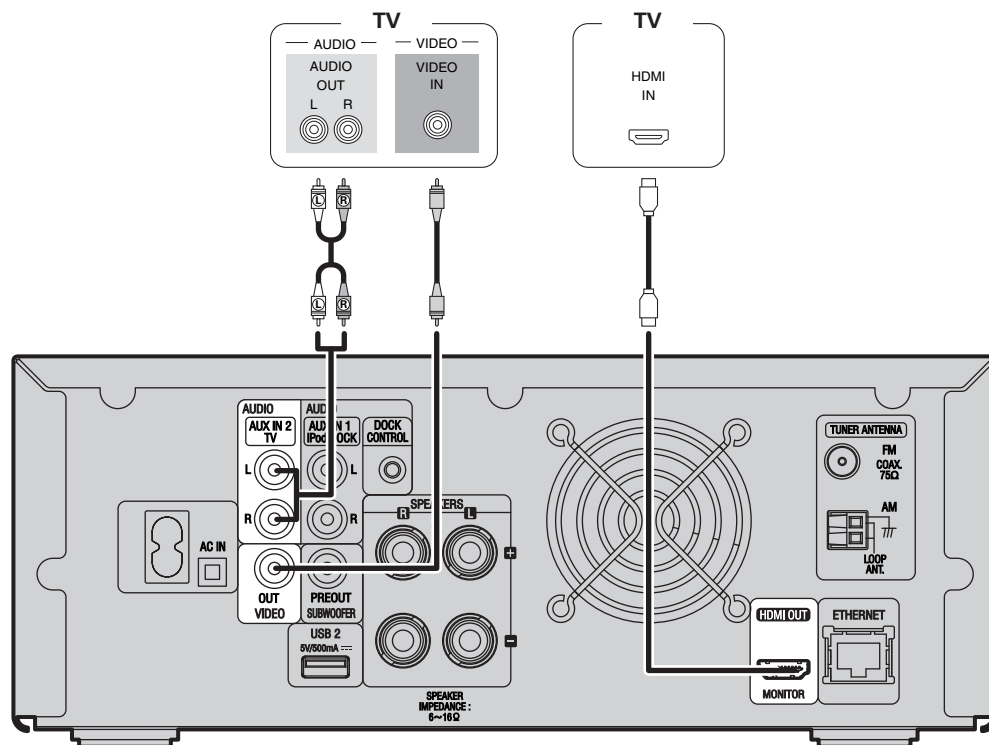
Connecting a TV

Select the connector to use and connect the device.

Cables used for connections

Audio and video cable (sold separately)	
HDMI cable *	
Video cable (sold separately)	
Video cable	

* This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.



HDMI function

- Deep Color (page 36 “Color Depth”)

Copyright protection system

In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both this unit and TV need to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV device. This unit supports HDCP.

- If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television for more information.

About HDMI cables

- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- When a device supporting Deep Color signal transfer is connected, use a cable compatible with HDMI version 1.3a.

NOTE

- Do not connect the this unit's video output via a VCR (Video Cassette Recorder). Some media contain copy prohibit signals, which will disturb the screen image.
- When the HDMI video resolution is set to “HDMI Auto” as described in “Resolution” (page 36), the outputs the highest resolution video signal that is supported by the connected equipment.
- If the HDMI resolution is not set to “HDMI Auto”, set it to correspond with the resolution of your television. Images will not be displayed normally if the television resolution and this unit's output resolution do not match.
- Audio and video will be temporarily interrupted if the power of the connected device currently playing back is turned off, or input is switched.
- When you change the HDMI video resolution of this unit, it takes from a few seconds up to about 10 seconds for validation between this unit and the connected device. Audio/video is not output during this period.
- If the resolution of video signal to be output from HDMI OUT does not match that of your TV, the picture is not clear, natural or displayed. Should this happen, first make (composite) video connection between this unit and TV, and select the (composite) VIDEO as an input source on the TV to display the setting menu, then set the Resolution correctly. (For details on the resolution acceptable for your TV, refer to its operating instructions.)
- Among the components that support HDMI, some components can control other components via the HDMI connector. However, this unit cannot be controlled by another component via the HDMI connector.

Connecting to a device equipped with a DVI-D connector

When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D connector.

NOTE

- No sound is output when connected to a device equipped with a DVI-D connector. Set “HDMI Output” (page 36) in the OSD menu to “Off Speaker”, and output audio from the speakers.
- Signals cannot be output to DVI-D devices that do not support HDCP.
- Depending on the combination of devices, the video signals may not be output.
- The video signal will be in RGB format.

Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

Audio (page 36)

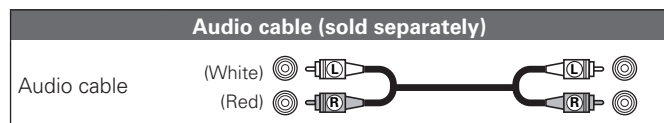
Make settings for HDMI video/audio output.

- HDMI Output

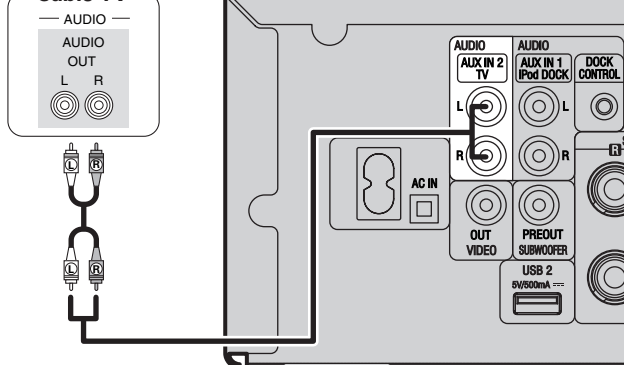
Connecting a set-top box (Satellite tuner/Cable TV)

You can watch satellite or cable TV.

Cables used for connections

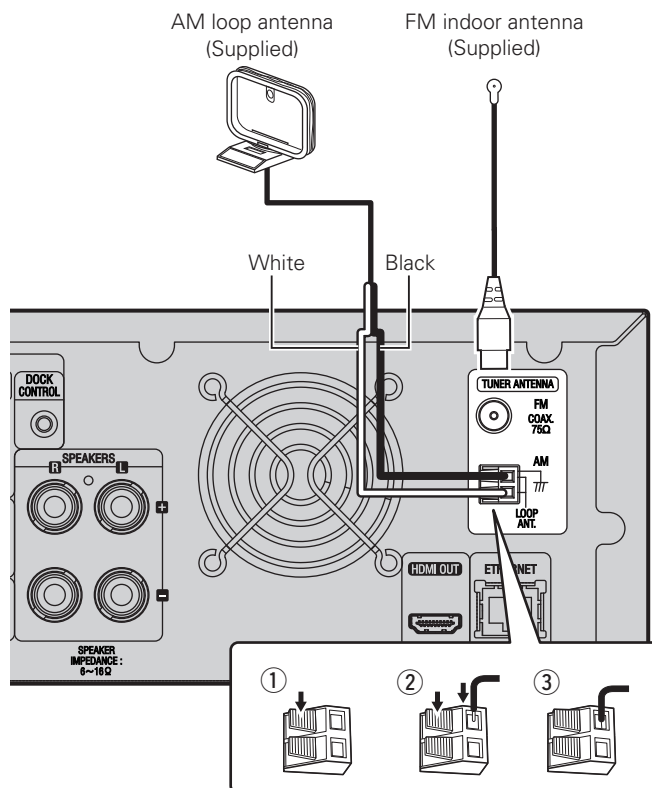


Satellite Tuner/ Cable TV



Connecting an antenna

- Connect the FM antenna or AM loop antenna supplied with the unit to enjoy listening to radio broadcasts.
- After connecting the antenna and receiving a broadcast signal (☞ page 21 "Listening to FM/AM broadcasts"), fix the antenna with tape in a position where the noise level becomes minimal.

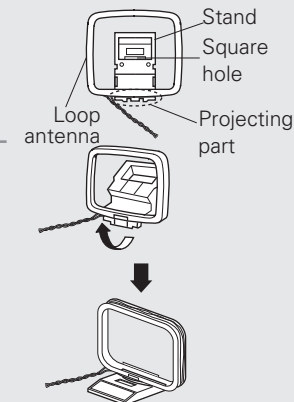


NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.
- If the signal has noise interference, connect the ground terminal (GND) to reduce noise.
- If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

AM loop antenna assembly

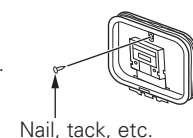
- 1 Put the stand section through the bottom of the loop antenna from the rear and bend it forward.
- 2 Insert the projecting part into the square hole in the stand.



Using the AM loop antenna

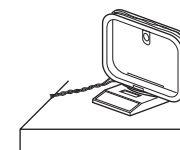
Suspending on a wall

Suspend directly on a wall without assembling.

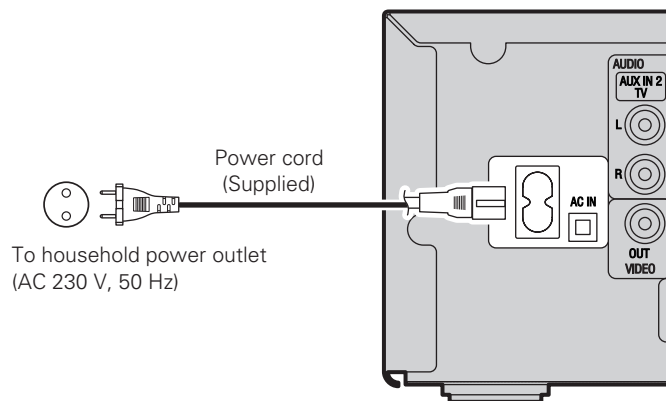


Standing alone

Assemble and use as shown in the diagram.



Connecting the power cord



NOTE

- **Do not plug in the power cord until all connections have been completed.**
- Only use the supplied power cord.
- Be sure the power cord is unplugged from the power outlet before connecting or disconnecting it to the AC IN.

Getting Started	Basic Connections	Basic Operations	Advanced Connections	Advanced Operations	Settings	Other setting	Other information	Explanation terms	Troubleshooting	Specifications	Index
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Basic operations

- ❑ Turning the power on (👉 page 12)
- ❑ Turning the power off (👉 page 12)
- ❑ Selecting the input source (👉 page 12)

- ❑ Adjusting the master volume (👉 page 13)
- ❑ Turning off the sound temporarily (👉 page 13)
- ❑ Switching the display's brightness (👉 page 13)
- ❑ Adjusting the tone (👉 page 13)
- ❑ Listening with headphones (👉 page 13)
- ❑ Source direct mode (👉 page 13)

- ❑ Setting the current time
(24-Hour Display) (👉 page 14)

- ❑ Playable media (👉 page 14)
- ❑ About playback information (👉 page 15)
- ❑ Playing Blu-ray Disc, DVD-Video and CD
(👉 page 15)

Playback (Basic) (👉 page 17)

Advanced operations (👉 page 27)

Important information

Before starting playback, make the connections between the different components and the settings on the receiver.

NOTE

Also refer to the operating instructions of the connected components when playing them.

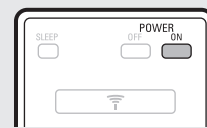
Preparations

Turning the power on

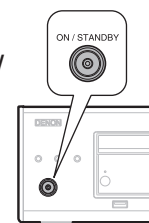
Press POWER ON.

The power turns on.

- Power indicator
- Standby Off
- Power on White



You can also switch the power on by pressing **ON/STANDBY** on the main unit.
Press again to set the power to standby.



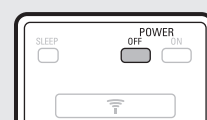
NOTE

- Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time, either press **ON/STANDBY** or **POWER OFF** to turn off the power, or unplug the power cord from the power outlet.
- Be sure to stop playback before turning the power off.

Turning the power off

Press POWER OFF.

The power indicator turns off, and so does the power.



NOTE

- Be sure to stop playback before turning the power off.
- Make sure that the disc tray is completely shut before turning off the power.
- Do not push the disc tray by hand when the power is turned off. Doing so could damage the set.

❑ Completely turning off the power

Unplug the power cord from the wall outlet.

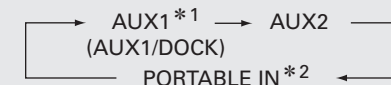
- Note that the time setting is cleared when the power cord is unplugged from the outlet.
- The settings made for the various functions may be cleared if the power cord is left unplugged from a power outlet for an extended period of time.

Selecting the input source

Press the input source select button (**DISC, TUNER, USB1/iPod, AUX ***) to be played back.

The desired input source can be selected directly.

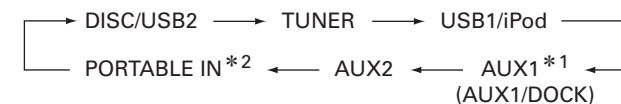
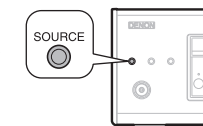
- * Each time **AUX** is pressed, the input source is changed as shown below.



❑ Using the button on the main unit

Press **SOURCE**.

- Each time **SOURCE** is pressed, the input source is changed as shown below.



* 1 "AUX1/DOCK" is displayed when a control dock for iPod is connected to "AUX1".

* 2 "PORTABLE IN" is only displayed when connected.

Operations possible during playback

Adjusting the master volume

Use **VOL ▲▼** to adjust the volume.
The volume level is displayed.

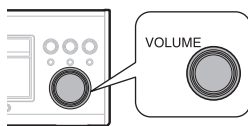
[Adjustable range]

VOLUME 00 – 59, VOLUME MAX

- The variable range differs according to the input signal.



You can also operate via the main unit. In this case, perform the following operations.
Turn **VOLUME** to adjust the volume.



Turning off the sound temporarily

Press **MUTE**.

"MUTE ON" is displayed.



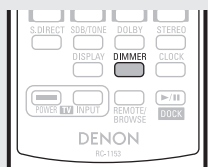
To cancel, press **MUTE** again. Muting can also be canceled by adjusting the master volume.

Switching the display's brightness

Press **DIMMER**.

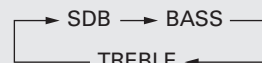


- The display's brightness switches each time the button is pressed.



Adjusting the tone

1 Use **SDB/TONE** to select the tone parameter to be adjusted.



2 Adjust the volume with **◀▶** or **◀▶**.

- To make other tone adjustments at this time, press **SDB/TONE**.
- If no operation is performed for 5 seconds, the adjustment is retained and the normal display reappears.



SDB Emphasize the bass sound. (Super Dynamic Bass)

[Selectable modes] **ON** – **OFF**

BASS Adjusts the bass sound.

[Variable range] **–10dB** – **+10dB**

TREBLE Adjusts the treble sound.

[Variable range] **–10dB** – **+10dB**

Settings made upon purchase:

- SDB..... OFF
- BASS..... 0dB
- TREBLE..... 0dB

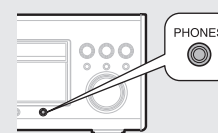


SDB and BASS can be set simultaneously. If the settings were performed at the same time, the BASS variable range may differ depending on the volume level.

Listening with headphones

Plug the headphones (sold separately) into the **PHONES**.

- The sound from the speakers is automatically cut off.



NOTE

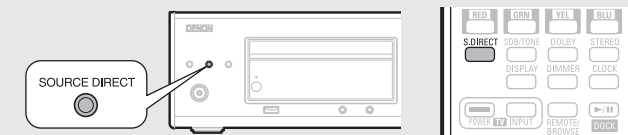
To prevent hearing loss, do not raise the volume level excessively when using headphones.

Source direct mode

As the audio signal does not pass through the tone control circuit (SDB/BASS/TREBLE) in source direct mode, the playback reproduction is closer to the original sound.

Press **S.DIRECT**.

- If **SOURCE DIRECT** on the main unit is pressed, the same function as with the remote control unit can be obtained.



Setting the current time (24-Hour Display)

[Example] Setting the current time to 10:15 am

1 Press **POWER ON** to turn on power to the unit.

2 Press **SETUP**.
Various types of setting menus are displayed.

3 Use $\Delta \nabla$ to select “**CLOCK SETUP**”, then press **ENTER** or $\blacktriangleright$.

SETUP MENU
CLOCK SETUP

4 Use $\Delta \nabla$ to set the “hours”.

CLOCK SETUP
10:00

5 Press **ENTER** or $\blacktriangleright$.
The “minutes” display flashes.

6 Use $\Delta \nabla$ to set the “minutes”.

CLOCK SETUP
10:15

7 Press **ENTER** or $\blacktriangleright$.
The current time is set, and the normal display reappears.



Checking the current time when the power is on
Press **CLOCK**.

Press once more and the display returns to its original condition.

Checking the current time when the power is set to standby
Press **CLOCK**.

The current time is displayed for 10 seconds.

NOTE

The time cannot be set when in the standby mode. Turn on the power first.

Playable media

Discs

Playable discs	Playable formats/modes	Playable region codes	Category type
BD-Video, BD-ROM, BD-RE/BD-R *1, *2, *3	BDMV, AVCHD format	Include region 	BD AVCHD
DVD-Video *1, *2	Video mode	Include region 	DVD
DVD-R	Video mode, AVCHD format	—	DVD AVCHD
DVD-RW			
CD	CD-DA	—	CD
CD-R			
CD-RW			

• Only BD-RE/-R, DVD-R/-RW and CD-R/-RW discs recorded in UDF or ISO9660 format can be played back.

*1 BD-Video/DVD-Video discs may not operate as described in this manual due to menu structure.

*2 The Blu-ray Disc player and BD-Video disc, and DVD player and DVD-Video disc each have their region codes (code assigned for each region). Playback is not possible if the codes do not match.

*3 This unit supports Ver 2.0 BD-ROM, Ver 3.0 BD-RE and Ver 2.0 BD-R.



The following discs will not play back on this unit.

- DVD+R/DVD+RW
- BD-RE Ver1.0 (BD disc with cartridge)
- BD-R/BD-RE in which BDAV is recorded
- HD DVD / DVD-RAM / DVD-Audio
- CDV (Only the audio part can be played)
- CD-G (Only the audio signals can be output)
- Non-standard CD (CD with copy protection, etc.)
- Unauthorised disc (Pirated disc)
- Disc with recording area less than 55 mm in diameter
- Hybrid disc
- Video Single Disc (VSD) / CVD / Video CD / Super Video CD / Compact Disc-Interactive (CD-I) / Photo CDs / Super Audio CD

NOTE

- A disc may not be accessible or play back incorrectly due to audio and video interruptions, etc., depending on the recording conditions when recorded with a Blu-ray Disc recorder or DVD recorder.
- Un finalised BD-RE/-R, DVD-R/-RW, and CD-R/-RW discs may not play back. Finalise discs before playing.
- Some 8cm BD-REs/8cm BD-Rs cannot be played on this unit.
- When a BD-Java title is played, loading may take longer than a normal title, or some functions may perform slowly.

Files

Playable Files (Extension)	File specification	Symbols
AVI (.avi)	Playable codec : Xvid Maximum size of image : 1920x1080-30 fps	AVI
WMV (.wmv)	Playable codec : WMV9 Maximum size of image : 1920x1080-30 fps	WMV
JPEG (.jpg)	Maximum Resolution 4272x2848 pixels	JPEG
MP3 (.mp3)	MPEG-1 Audio Layer 3.	MP3
WMA * (.wma)	Windows Media Audio	WMA
AAC * (.m4a)	MPEG-4 AAC	AAC

Playable file

USB1/iPod	MP3 WMA AAC
USB2	AVI WMV JPEG MP3 WMA
CD-R/-RW	AVI WMV JPEG MP3 WMA

* This unit cannot play back files recorded under DRM (Digital Rights Management).

NOTE

- The abovementioned file type may also fail to play back depending on conditions at the time of recording.
- If characters not supported on the menu screen are included in a file name, title, artist name or album title, those are not displayed correctly.
- JPEG format images stored in progressive format cannot be played back.

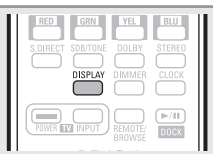
About playback information

Displays playback information on the information bar and media player screen.

Press DISPLAY.

Disc information is displayed on the TV screen.

- To erase display, press **DISPLAY**.



Displayed content differs depending on the media being played back. Also, the information displayed during playback.

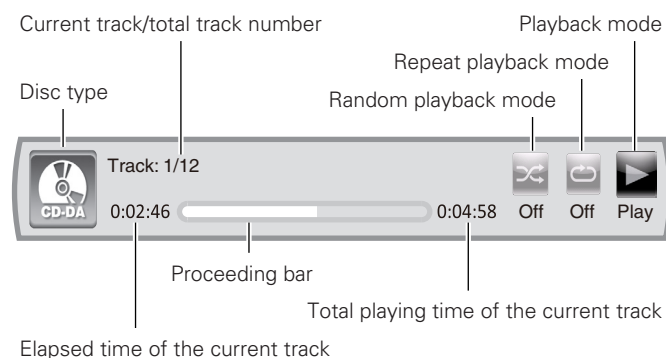
NOTE

- The  (prohibited mark) may appear on the top right of the TV screen during an operation. This means that the operation being conducted is prohibited.
- Depending on the disc, certain operations may not be as described in this manual. Check each disc owner's manual for more information.
- During playback of a 2-layered disc, pictures may stop momentarily. This happens when the first layer switches to the second layer. This is not a malfunction.

Information bar display

BD DVD CD

[Example] When playing a CD



Playing Blu-ray Disc, DVD-Video and CD

BD DVD AVCHD CD

1 Prepare for playback.

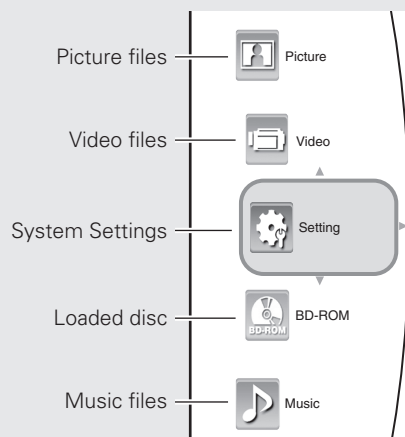
- ① Turn on the TV and subwoofer power.
- ② Change the TV input to the input of this unit.

2 Press POWER ON to turn on power to the unit.

3 Press DISC to switch the input source to "DISC/USB2".

4 Insert a disc.

- Press  on the main unit to open/close the disc tray.
- The home menu will be displayed on the TV screen.



- When the "Optical Disc AutoPlay" (page 34) is set to "ON", playback automatically starts. Should this happen, ignore step 5.

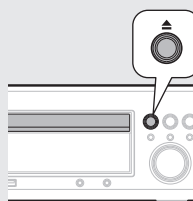
5 Use $\Delta \nabla$ to select the disc, then press ENTER.

Playback starts.

- For some discs, the menu may be displayed first.

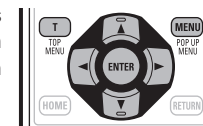


- BD-Video or DVD-Video recorded in AVCHD format is displayed as "BD" on the TV screen.
- If a disc that cannot be played back is inserted, the disc tray opens.



Operations using disc menu, top menu, and pop-up menu

Many of BD-Video and DVD-Video contains disc menu, top menu or pop-up menu which guides you through the available functions in the disc.



NOTE

Contents of menus and corresponding menu operations may vary among discs. For details, refer to the disc manual.

Using the disc menu

BD DVD AVCHD

1 During playback, press TOP MENU.

The disc menu is displayed on the TV screen if present on the disc.

2 Use $\Delta \nabla \triangleleft \triangleright$ to select the desired item, then press ENTER.

The selected item is played back.

Using the title menu

DVD AVCHD

1 During playback, press POP UP MENU.

The title menu is displayed on the TV screen if present on the disc.

2 Use $\Delta \nabla \triangleleft \triangleright$ to select the desired item, then press ENTER.

The selected item is played back.

□ Using the pop-up menu

This is a special feature available for some BD-Video.

1 During playback, press **POP UP MENU**.

The pop-up menu is displayed on the TV screen if present on the disc.

2 Use $\Delta \nabla \triangleleft \triangleright$ to select the desired item, then press **ENTER**.

The selected item is played back.

3 Press **POP UP MENU** to exit.

The pop-up menu will automatically disappear for some discs.

BD

Enjoying BD-LIVE Features

BD

While playing back a disc compatible with BD-LIVE, you can connect to the BD-LIVE site for Blu-ray Discs via the Internet and display special features and caption information not available on the disc.

Connect a USB memory device on which BD-LIVE data is recorded to the USB2 port on the rear panel.

- The various functions that can be used with BD-LIVE differ depending on the disc used.
- For details on the functions and how to operate them, see the individual disc's on-screen displays and explanations.
- To play back a BD-LIVE-compatible Blu-ray Disc, you should first install a USB memory device in this unit.



- To use BD-LIVE functions, connect this unit to the Internet and make the settings described below, as necessary:

Connections : "Connecting to the network" (page 26)

Settings : "Network" (page 35)

- Depending on your network environment, in some cases time may be required to connect to the network or connection may not be possible.

NOTE

- Do not remove the USB memory device from this unit while playing a BD-LIVE compatible disc.
- BD-LIVE and Bonus View functions cannot be used with the USB1/iPod port on the front panel.

NOTE for USB memory device

- Insert or remove a USB memory device while the power is in standby. If you insert a USB memory device while the power is ON, the USB memory device may not be read.
- Connect a USB memory device with a capacity of 1 GB or greater supporting FAT32 and USB 2.0 High Speed (480Mbit/s) to the USB connector.
- If a USB memory device containing other contents (previously recorded) is used, the video and audio may not play back properly.
- Operation of USB memory devices is not guaranteed.
- Do not use a USB extension cable when connecting a USB memory device to the USB connector.

Playing BD-Video compatible with Bonus View

BD

With a disc that is compatible with bonus view (picture-in-picture), besides the main video (primary video) stored on the disc, you can play back the video director's commentary and simultaneously ongoing sub-story, as well as sub-video such as alternative camera angle (secondary video).

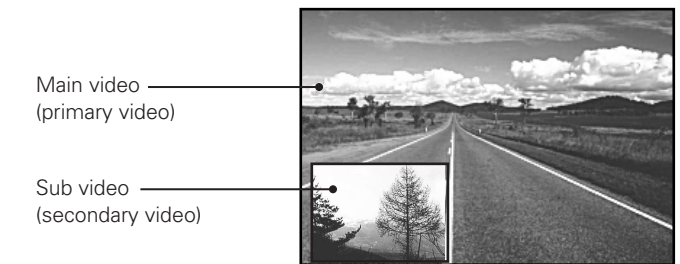
- The playback method, etc., is determined by the disc, and varies depending on the disc.
- For details on the functions and how to operate them, see the individual disc's on-screen displays and explanations.

1 During playback at the scene that contains the secondary video, press **PIC IN PIC**.

Then the PIP (picture-in-picture) setting menu is displayed for several seconds on the TV screen.

2 Press $\triangleright$ to enter the PIP mode menu.

3 Press $\Delta \nabla$ to select the secondary video, and then press **ENTER**.



[Example] Bonus view

Playback (Basic)

Preparations (👉 page 12)

Operations possible during playback (👉 page 13)

**Setting the current time
(24-Hour Display)** (👉 page 14)

Playable media (👉 page 14)

About playback information (👉 page 15)

Playing Blu-ray Disc, DVD-Video and CD (👉 page 15)

- ☐ **Stop playback** (👉 page 17)
- ☐ **Pause playback** (👉 page 17)
- ☐ **Step-by-step playback** (👉 page 17)
- ☐ **Fast forward/fast reverse playback** (👉 page 18)
- ☐ **Slow forward playback** (👉 page 18)
- ☐ **Skipping to the chapter/track/file** (👉 page 18)
- ☐ **Looking for specific sections using the search modes** (👉 page 18)
 - ☐ **Repeat playback** (👉 page 19)
 - ☐ **Random playback** (👉 page 19)
 - ☐ **Switching the angle** (👉 page 19)
 - ☐ **Switching the audio** (👉 page 20)
 - ☐ **Switching the subtitles** (👉 page 20)

Surround mode (👉 page 20)

Tuning in radio stations (👉 page 21)

Advanced operations (👉 page 27)

Stop playback

BD DVD AVCHD CD AVI WMV WMA MP3 JPEG

During playback, press ■.
Playback stops.



☐ About resume function

When playback is stopped, the stop position is memorized.

- When playing back data from the stop position, press ► while stop by the resume function.

☐ To cancel the resume function

Perform one of the following operations.

- During stop, press ■.
- Switch to the playback contents of the USB memory device connected to a USB2 port.
- Open the disc tray.



The resume function is cancelled when the unit is switched to standby mode, or when the power is switched off by removing the power plug from the wall socket.

NOTE

The resume function does not work with menu playback or BD-J (Blu-ray Disc Java) compatible disc or CD.

Pause playback

BD DVD AVCHD CD AVI WMV WMA MP3 JPEG

During playback, press ■■.
The ■■ indicator will light on the display.

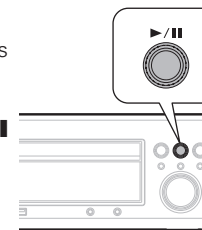
- Resume normal playback by pressing ►.



You can also operate via the main unit. In this case, perform the following operations.

During playback, press ►/■.

- Resume normal playback by pressing ►/■ again.



Step-by-step playback

BD DVD AVCHD AVI WMV

During pause, press ■■.

The disc advances frame by frame each time the button is pressed.

- Resume normal playback by pressing ►.



NOTE

Step-by-step reverse playback is not available with this unit.

Fast forward/fast reverse playback

BD DVD AVCHD CD AVI WMV WMA MP3

During playback, press ◀◀ or ▶▶.

The fast forward/fast reverse speed changes each time the button is pressed.

- Speed varies with the disc and file.
- Resume normal playback by pressing ▶.



NOTE

Audio is not output during fast forward/fast reverse of a Blu-ray Disc or DVD.

Slow forward playback

BD DVD AVCHD AVI WMV

During pause, press ▶▶.

The speed changes each time the button is pressed.

- Resume normal playback by pressing ▶.



Audio is not output during slow forward playback.

Skipping to the chapter/track/file

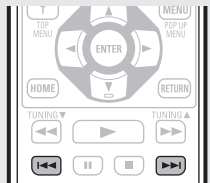
BD DVD AVCHD CD AVI WMV WMA MP3 JPEG

During playback, press ◀◀ or ▶▶.

◀◀ Playback begins from the start of the chapter/track/file being played.

▶▶ Playback begins from the start of the next chapter/track/file.

- Continue pressing and skip to the chapter/track/file with just the number of times pressed.



NOTE

Skipping to the start of a title may be prohibited depending on the disc.

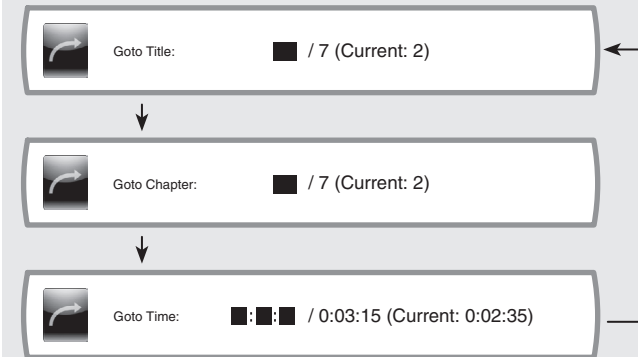
Looking for specific sections using the search modes

BD DVD AVCHD CD AVI WMV WMA MP3

1 During playback, press SRCH, and then search mode.

The search mode setting bar is displayed at the top of the screen.

- The search mode changes each time the button is pressed.



[Content compatible with search mode]

Contents	BD	DVD	AVCHD	CD	AVI	WMV	WMA	MP3
Search mode								
Goto Chapter	✓							
Goto Title	✓							
Goto Track				✓				
Goto Time	✓						✓	
Goto File								✓



When the entry mode for chapter/title/track search continues for about several seconds with no operation, it is canceled.

2 Conducting search condition entry or setting on the search mode setting bar.

Search specified location on completion of entry.

❑ When entering title, chapter, track number [Example]

For "3" 3, ENTER

For "11" 1, 1, ENTER

❑ When entering the elapsed time

You can play a disc from the desired by specifying the elapsed time from the beginning of the current title/disc.

[Example]

For "3 min. 5 sec." 3, 0, 5, ENTER

For "1 hour. 9 min. 35 sec." 1, 0, 9, 3, 5, ENTER

❑ When clearing the numbers entered

Use ◀▶ to select the number to be cleared, and then press CLEAR.

The selected number will be cleared.



Repeat playback

BD DVD AVCHD CD AVI WMV WMA MP3 JPEG

Press REPEAT.

The "REPEAT" indicator lights on the display and the repeat mode icon is displayed on the TV screen.

- The repeat mode changes each time the button is pressed.
- When **REPEAT** is pressed during playback, the current setting is displayed.



Repeat playback mode



[About repeat mode]

Settable repeat modes vary depending on the disc or file you are playing back.

Contents Mode	BD	DVD	AVCHD	CD	AVI	WMV	WMA	MP3	JPEG	Repeat mode display
	BD	DVD	AVCHD	CD	AVI	WMV	WMA	MP3	JPEG	
Repeat Chapter	✓									
Repeat Track				✓						
Repeat File								✓		
Repeat Title	✓									
Repeat All				✓				✓	✓	

Stopping repeat playback

Press **REPEAT** repeatedly until "REPEAT" indicator on the display turns off or "Repeat Off" is displayed on the TV screen.

NOTE

- Some repeat modes may not be accessible depending on the disc.
- Depending on the disc, even when set to repeat playback, the disc may not return to the start of title or chapter, and may advance to the next scene.
- The "Repeat Off" setting is not available for repeat modes of a USB memory device connected to a USB1/iPod port on the front panel.

Repeat playback between specified points (A-B Repeat)

BD DVD AVCHD CD

1 During playback, press A-B at the desired starting point (A).

The "A-" indicator lights on the display.

2 Press the A-B again at the desired ending point (B).

The "B" indicator lights on the display, and A-B repeat playback will commence.

- To resume normal playback, press **A-B** repeatedly until "Repeat Off" is displayed.



- Set the ending point (B) setting at least 5 seconds after the starting point (A) setting.
- If you perform a search operation during A-B repeat playback, A-B repeat playback is canceled.
- A-B repeat playback may not be enabled depending on the scene.
- A-B repeat playback of AVI/WMV/WMA/MP3/JPEG files is not available.
- A-B repeat playback is not available during repeat playback.
- A-B repeat playback may not be enabled depending on the AVCHD file.
- For some BD-Video discs which support Java applications, the A-B repeat function will not work.

Random playback

CD AVI WMV WMA MP3

During playback, press RAND.

The "RANDOM" indicator lights on the display and  is displayed on the TV screen.

- When **RAND** is pressed during playback, the current setting is displayed.



Stopping random playback

Press **RAND** repeatedly until "RANDOM" indicator on the display turns off or "Random Off" is displayed on the TV screen.

NOTE

- Random playback may not be enabled depending on the disc.
- Random playback is repeated until "Random Off" is set.

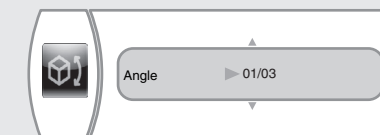
Switching the angle

BD DVD

During playback of a Blu-ray Disc or DVD-Video recorded with several camera angles, you can change the angle.

1 During playback, press ANGLE.

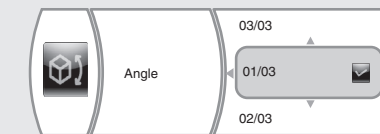
The angle number currently being played is displayed.



2 Press >.

Then audio menu is displayed.

3 Use Δ ∇ to select angle and then press ENTER.



NOTE

Angle changing may be restricted, depending on the disc.

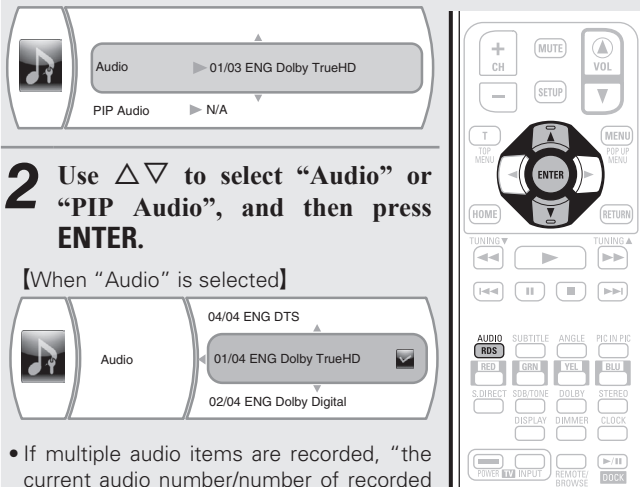
Switching the audio

BD DVD AVCHD

With discs and files that have multiple audio track recording, you can change the audio during playback.

With Blu-ray Disc, you can set sub-track audio such as interactive audio and audio commentary, etc., with “Secondary”.

- During playback, press AUDIO/RDS.**
The audio number currently being played is displayed.



- If multiple audio items are recorded, “the current audio number/number of recorded audio items” is displayed.

- Use Δ / ∇ to select your desired audio language, and then press ENTER.**



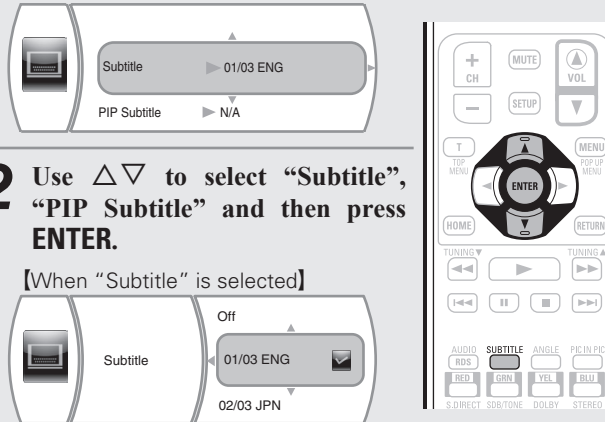
- Depending on the disc, audio switching may be restricted to operation of the disc menu. In this case, switch the audio on the disc menu.
- Depending on the Blu-ray Disc, even if picture-in-picture playback is set to “Off”, Secondary Audio only may be output.

Switching the subtitles

BD DVD AVCHD

During playback of a disc or file with recorded subtitles, you can switch subtitle on/off as well as subtitle language.

- During playback, press SUBTITLE.**
The subtitle number currently being played is displayed.



- Use Δ / ∇ to select your desired subtitle language, and then press ENTER.**



- Depending on the disc, subtitle switching may be restricted to operation of the disc menu. In this case, switch the subtitles on the disc menu.
- When the primary and the secondary subtitles are all switched, both will be displayed on the TV screen. If confused, set either of subtitles to Off.

Surround mode

When the input source is “DISC/USB2”, virtual surround processing is performed for playback.

- Surround mode can be set separately for each source.
[Default] Multi channel source : Dolby Virtual Speaker mode
Dolby Headphone mode
2-channel source : Stereo mode

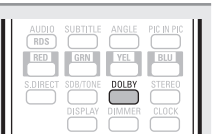
Dolby Virtual Speaker playback

This delivers a full surround sound experience from two stereo speakers.

- Sound is output from the front left and right speakers.
- If multichannel sources are played, they are mixed down to 2-channel audio.

Press DOLBY.

The “ $\square$ VS” indicator lights on the display.
Dolby virtual speaker playback begins.

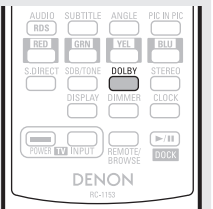


Dolby Headphone playback

You can enjoy listening to multi-channel surround sound through headphones using this mode.

- Connect the headphone.**

- Press DOLBY.**
The “ $\square$ H” indicator lights on the display.
Dolby Headphone playback begins.



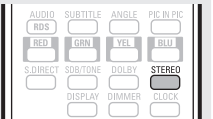
Stereo playback

This is the mode for playing in stereo.

- Sound is output from the front left and right speakers.
- If multichannel sources are played, they are mixed down to 2-channel audio.

Press STEREO.

The “STEREO” indicator lights on the display.
Stereo playback begins.

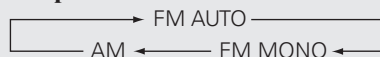


Tuning in radio stations

Listening to FM/AM broadcasts

1 Press **TUNER** to switch the input source to “TUNER”.

2 Press **TUNER** to select the reception band.



- If **■** on the main unit is pressed, the same function as with the remote control unit can be obtained.

FM AUTO Select to automatically receive and listen to analog stereo or analog monaural FM broadcasts.

FM MONO Select to receive and listen to analog stereo as an analog monaural FM broadcast.

AM When listening to an AM broadcast.

3 Tune in the desired broadcast station.

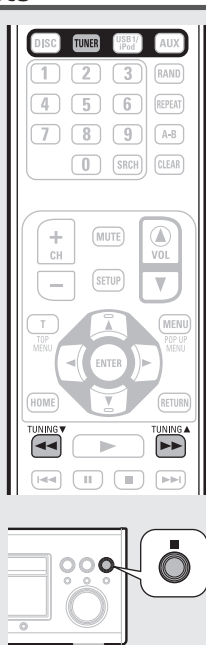
① **To tune in automatically (Auto tuning)**

Press and hold in **TUNING ▲** or **TUNING ▼** to select the station you want to hear.

- Stations whose signal is weak cannot be tuned in.
- To stop auto tuning, press **TUNING ▲** or **TUNING ▼**.

② **To tune in manually (Manual tuning)**

Use **TUNING ▲** or **TUNING ▼** to select the station you want to hear.



❑ Presetting FM stations automatically (Auto preset)

Up to 40 stations can be preset.

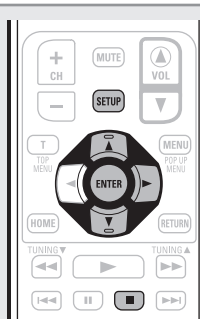
Auto preset is not possible with AM broadcast stations.

1 Press **SETUP**.

2 Use **△▽** to select “TUNER SETUP”, then press **ENTER** or **▷**.

3 Use **△▽** to select “FM AUTO PRESET”, then press **ENTER** or **▷**.
“FM AUTO PRESET” display flashes.

4 Press **ENTER** while “FM AUTO PRESET” is flashing.
Broadcast stations are preset automatically.



Canceling auto presetting

Press **TUNER**, **SETUP** or **■**.

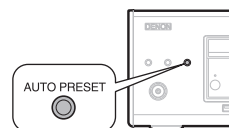


Using the button on the main unit

① Press **AUTO PRESET**.

“FM AUTO PRESET” display flashes.

② Press **AUTO PRESET** again while “FM AUTO PRESET” is flashing.
Broadcast stations are preset automatically.



Broadcast stations whose antenna signal are weak cannot be preset automatically. If you wish to preset such stations, tune them in manually.

NOTE

When auto preset is performed, the previously registered preset details are erased. The newly preset FM station is newly registered to the erased preset number.

❑ Giving station names to preset channels

Names of up to 8 characters can be input.

1 Tune in the preset channel you want to name.

2 Press **ENTER** twice.

The display switches to the station name input display.

3 Input the station name.

- Buttons that can be operated are as follows.

△ ▽ : Selects the character.

◀ ▶ : Moves the cursor to the left or right.

CLEAR : Deletes the currently selected character.

CLEAR (Press and hold) : All text is erased.

- Characters that can be input are as follows.

A ~ Z, 0 ~ 9, ^ ' () * + , - . / = (space)

4 Press **ENTER**.

The characters you have input are entered.

- To give names to other stations, repeat steps 1 to 4.



- A humming sound may be heard when using a TV nearby while receiving AM programs. If this happens, move the system as far from the TV as possible.
- If the desired station cannot be tuned in with auto tuning, tune it in manually.

❑ Presetting FM/AM stations manually (Manual preset)

Your favorite broadcast stations can be preset so that you can tune them easily.

This unit can be preset with a total of 40 FM and AM broadcast stations.

1 Tune in the station you want to preset.

2 Press ENTER.

The minimum number display “P-” for the unregistered preset flashes.

3 Use ◀ ▶, CH +, CH – or 0 – 9 to select the number to be preset, then press ENTER.

The reception frequency and reception mode are preset and the display switches to the station name input display.

NOTE

When the registered preset number is selected, “*” is displayed. To overwrite this preset number, press **ENTER**.

FM * P 0 1
106.95 MHz

4 Input the station name.

- Names of up to 8 characters can be input.
- Buttons that can be operated are as follows.
 - △ ▽: Selects the character.
 - ◀ ▶: Moves the cursor to the left or right.
 - CLEAR**: Deletes the currently selected character.
 - CLEAR** (Press and hold): All text is erased.
- Characters that can be input are as follows.

A ~ Z, 0 ~ 9, ^ ' () * + , - . / = (space)



- If you do not want to input a station name, press **ENTER** without inputting anything else.
- If you make a mistake when inputting, perform the procedure again. Whatever was previously input is overwritten.

5 Press ENTER.

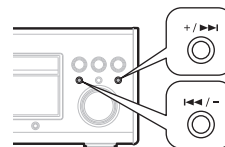
The characters you have input are entered.

- To give names to other stations, repeat steps 1 to 5.

❑ Setting used for selecting the preset channel on the unit, or for performing tuning.

◀◀/–, +/▶▶ on the main unit can be used both for switching the preset channel and for tuning.

Before operating them, switch the main unit to the “preset mode” or “tuning mode” using the procedure below.



1 Press SETUP.

2 Use △ ▽ to select “TUNER SETUP”, then press ENTER or ▶.

3 Use △ ▽ to select “MODE SELECT”, then press ENTER or ▶.

4 Use △ ▽ to select “PRESET MODE” or “TUNING MODE”, then press ENTER.

PRESET MODE

Press ◀◀/–, +/▶▶ on the main unit to switch preset channels.

- This is the same operation as **CH–**, **CH+** on the remote control unit.

TUNING MODE

Press ◀◀/–, +/▶▶ on the main unit to change the received frequency.

- This is the same operation as **TUNING ▲** or **TUNING ▼** on the remote control unit.

Listening to preset stations

Press **CH +**, **CH –** or **0 – 9** to select the desired preset channel.



Canceling preset channels

- Receive the preset channel that you want to erase.
- Press **CLEAR**.
- When “DELETE OK?” is flashing, press either **CLEAR** or **ENTER**.



RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

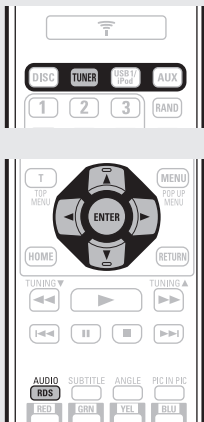
The following four types of RDS information can be received with this unit:

❑ RDS Search

Use this function to automatically tune to FM stations that provide the RDS service.

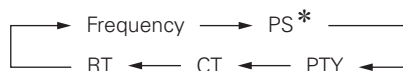
- 1 Press TUNER to select “FM”.**
- 2 Press AUDIO/RDS.**
- 3 Use Δ / ∇ to select “RDS SEARCH”, then press ENTER or $\triangleright$.**
- 4 Press ENTER or $\triangleleft$ / $\triangleright$.**
Automatically begin the RDS search operation.

- If no RDS station is found, “NO STATION” is displayed.



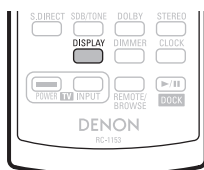
Viewing information during reception

Press **DISPLAY** while receiving a RDS to display the information currently being broadcast.



* Program service name

- If a station name is entered, it is displayed.



PTY (Program Type)

PTY identifies the type of RDS program.

The program types and their displays are as follows:

NEWS	News	WEATHER	Weather
AFFAIRS	Current Affairs	FINANCE	Finance
INFO	Information	CHILDREN	Children's programmes
SPORT	Sports	SOCIAL	Social Affairs
EDUCATE	Education	RELIGION	Religion
DRAMA	Drama	PHONE IN	Phone In
CULTURE	Culture	TRAVEL	Travel
SCIENCE	Science	LEISURE	Leisure
VARIED	Varied	JAZZ	Jazz Music
POP M	Pop Music	COUNTRY	Country Music
ROCK M	Rock Music	NATION M	National Music
EASY M	Easy Listening Music	OLDIES	Oldies Music
LIGHT M	Light Classical	FOLK M	Folk Music
CLASSICS	Serious Classical	DOCUMENT	Documentary
OTHER M	Other Music		

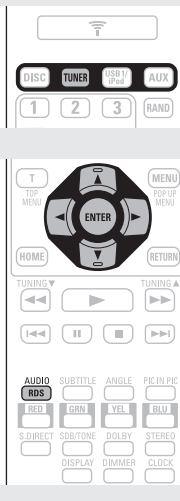
❑ PTY search

Use this function to find RDS stations broadcasting a designated program type (PTY).

For a description of each program type, refer to “Program Type (PTY)”.

- 1 Press TUNER to select “FM”.**
- 2 Press AUDIO/RDS.**
- 3 Use Δ / ∇ to select “PTY SEARCH”, then press ENTER or $\triangleright$.**
- 4 Use Δ / ∇ to call out the desired program type.**
- 5 Press ENTER or $\triangleleft$ / $\triangleright$.**
Automatically begin the PTY search operation.

- If no program of the specified type is found, “NO STATION” is displayed.



TP (Traffic Program)

TP identifies programs that carry traffic announcements.

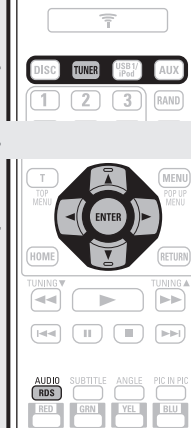
This allows you to easily find out the latest traffic conditions in your area before leaving home.

❑ TP search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

- 1 Press TUNER to select “FM”.**
- 2 Press AUDIO/RDS.**
- 3 Use Δ / ∇ to select “TP SEARCH”, then press ENTER or $\triangleright$.**
- 4 Press ENTER or $\triangleleft$ / $\triangleright$.**
Automatically begin the TP search operation.

- “NO STATION” is displayed when there is no traffic information broadcast station.



RT (Radio Text)

RT allows RDS stations to send text messages that appear on the display.



- When the RT mode is turned on while an RDS broadcast station not offering an RT service is tuned in, “NO TEXT” is displayed on the display.
- The RT mode cannot be set in the AM band or for FM stations not offering RDS broadcasts.

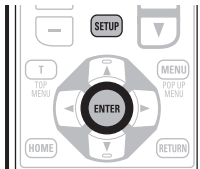
NOTE

The operations described below selecting “RDS Search” will not function in areas in which there are no RDS broadcasts.

CT (Clock Time)

Use this to correct the time of the clock on this unit.

- ① During CT reception, press **SETUP**.
The "AUTO Adj mm:ss" is displayed.
- ② Press **ENTER** to set.
The "mm:ss" is displayed.
 - The time on the set's internal clock is updated to the currently displayed "CT" time.



Do not operate any buttons while the time is being updated. If buttons are operated, CT reception is not possible and the time is not updated.

Advanced connections

This section explains how to connect a control dock for iPod, USB memory device, iPod, portable player and the network. For other connections, see the sections below.

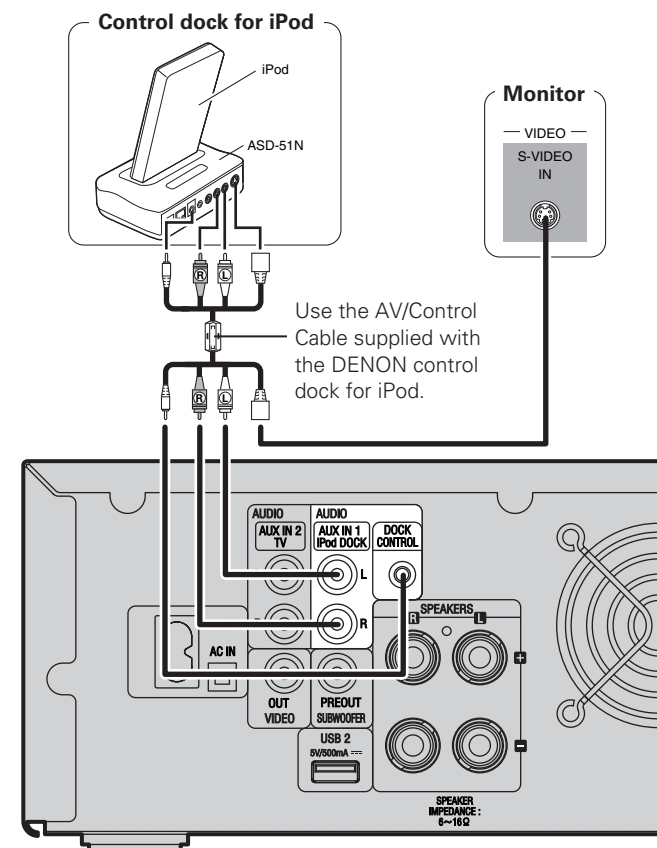
- ❑ **Connecting speakers** (👉 page 8)
- ❑ **Connecting a TV** (👉 page 9)
- ❑ **Connecting a set-top box (Satellite tuner/Cable TV)** (👉 page 10)
- ❑ **Connecting an antenna** (👉 page 10)
- ❑ **Connecting the power cord** (👉 page 11)

Connecting a control dock for iPod

- Connect a control dock for iPod to the unit to enjoy video and music stored on an iPod.
- For a control dock for iPod, use ASD-11R, ASD-3N, ASD-3W, ASD-51N and ASD-51W made by DENON (sold separately).
- For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



You can also connect the iPod you are using directly to the USB port of this unit (👉 page 25 "Connecting an iPod or USB memory device to the USB1/iPod port").



Connecting an iPod or USB memory device to the USB1/iPod port

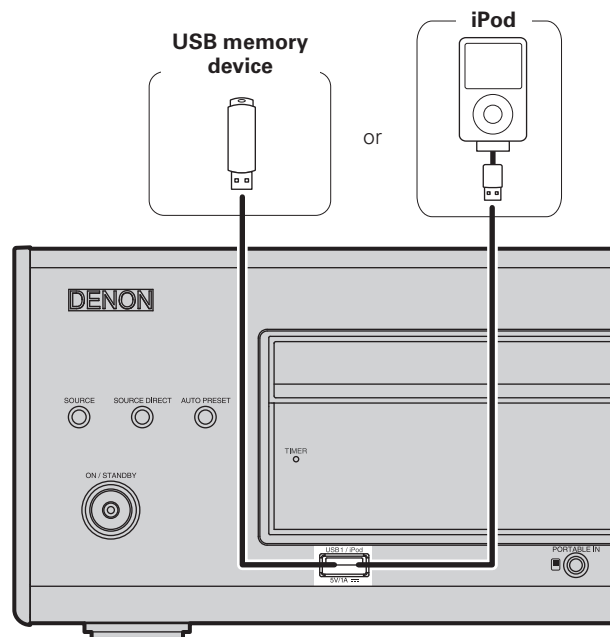
You can enjoy music, stored on an iPod or USB memory device.

NOTE

- iPod can only be connected to the USB1/iPod port on the front panel. Do not connect an iPod to the USB2 port on the rear panel.
- A computer can not be connected to and operate the unit via its USB port.
- Do not use an extension cable when connecting a USB memory device.
- For details about USB memory devices, see “Playing a USB memory device” (page 29).
- When connecting an iPhone to this unit, place the iPhone at least 20cm away from this unit. If the iPhone is placed too close to this unit, noise may be output from this unit if a phone call is received by the iPhone.

Cables used for connections

To connect an iPod to this unit, use the USB cable supplied with the iPod.

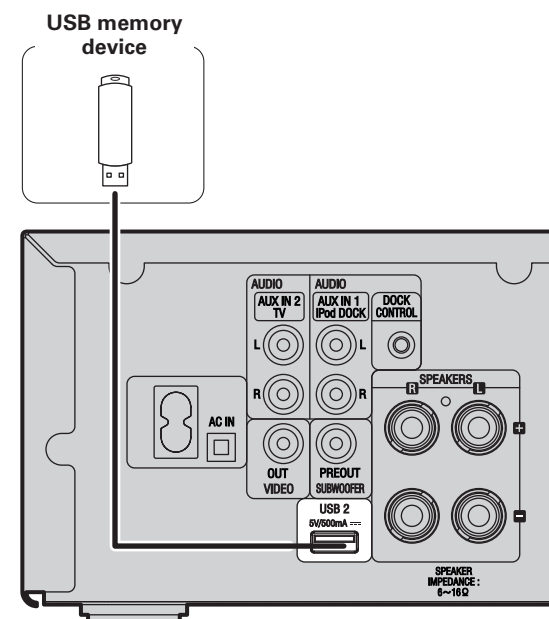


Connecting a USB memory device to the USB2 port

You can enjoy music, stored on a USB memory device.

NOTE

- iPod cannot be connected.
- A computer can not be connected to and operate the unit via its USB port.
- Do not use an extension cable when connecting a USB memory device.
- For details about USB memory devices, see “Playing files” (page 30).



USB memory device for BD-LIVE

To enjoy the BD-LIVE functions, connect a USB memory device (1GB capacity or greater) supporting FAT32 and USB 2.0 High Speed (480 Mbit/s) to the USB2 connector (page 16).

NOTE

The BD-LIVE function cannot be used with the USB1/iPod port on the front panel.

Connecting a portable audio player

Your portable audio player can be connected to this unit's portable jack to play tracks on the portable audio player.

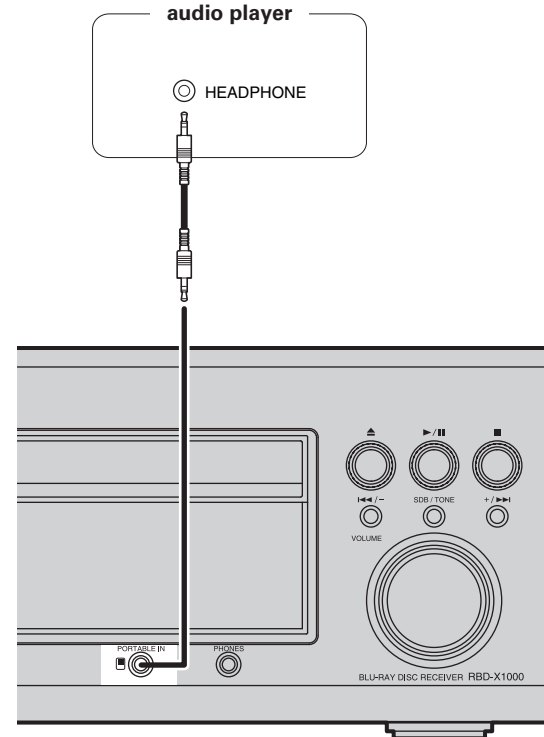
Cables used for connections

Audio cable (sold separately)

Stereo mini plug cable



Portable audio player

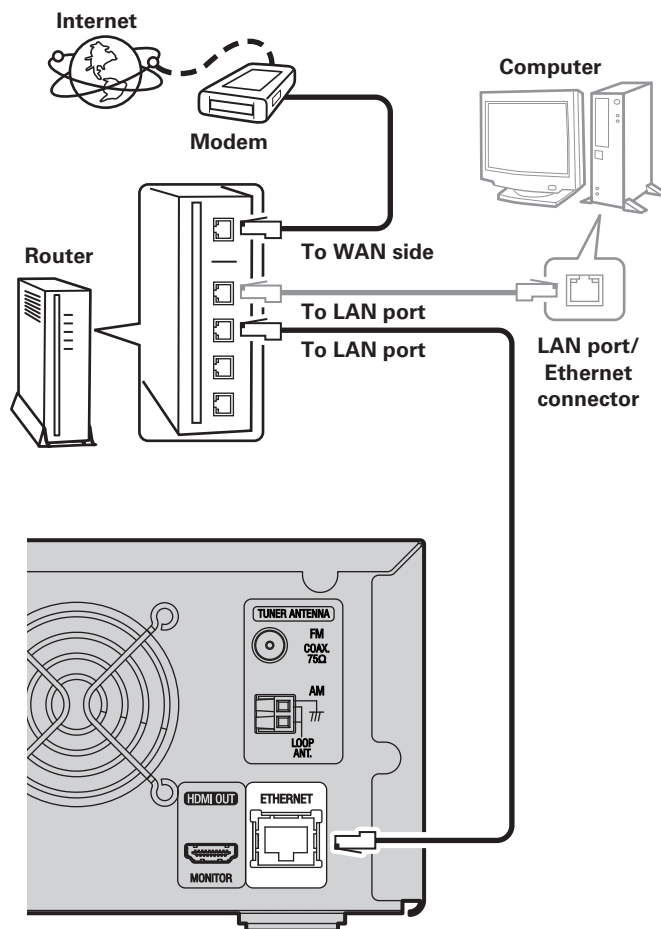
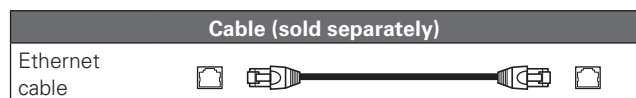


- When you want to playback a video file stored on an iPod, use a DENON control dock for iPod (ASD-11R, ASD-3N, ASD-3W, ASD-51N and ASD-51W, sold separately) (page 24 “Connecting a control dock for iPod”).
- With this unit, playback via iPod (5th generation or later), iPod touch, iPod classic, iPod nano or iPhone can be performed. For details, check the Web.
- DENON does not guarantee that all USB memory devices will operate or receive power. When using a portable USB connection type HDD of the kind to which an AC adapter can be connected to supply power, use the AC adapter.

Connecting to the network

- You can use a disc which offers BD-LIVE function by connecting the unit to the Internet (☞ page 16).
- See "Network" (☞ page 35) for more information on network setting.

Cables used for connections



For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.

Required system

Broadband internet connection

Modem

Device that connects to the broadband circuit and conducts communications on the Internet.

A type that is integrated with a router is also available.

Router

- When using this unit, we recommend you use a router equipped with the following functions:
 - Built-in DHCP server
 - This function automatically assigns IP addresses on the LAN.
 - Built-in 100BASE-TX switch
- When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

Ethernet cable

(CAT-5 or greater recommended)

- Use for wired LAN.
- Use only shielded STP or ScTP LAN cable which is available at retailer.
- Some flat type Ethernet cables are easily affected by noise.
- We recommend using a normal type cable.



- If you have an Internet provider contract for a line on which network settings are made manually, make the settings at "Network" (☞ page 35).
- With this unit, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
- When using this unit with the broadband router's DHCP function enabled, this unit automatically performs the IP address setting and other settings.
When using this unit connected to a network with no DHCP function, make the settings for the IP address, etc., at "Network" (☞ page 35).
- When setting manually, check the setting contents with the network administrator.

NOTE

- A contract with an ISP is required to connect to the Internet.
- No additional contract is needed if you already have a broadband connection to the Internet.
- The types of routers that can be used depend on the ISP. Contact an ISP or a computer shop for details.
- DENON assumes no responsibility whatsoever for any communication errors or troubles resulting from customer's network environment or connected devices.
- This unit is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a type of line set by PPPoE.
- Do not connect an ETHERNET connector directly to the LAN port/Ethernet connector on your computer.

Advanced operations

Basic operations (👉 page 12)

Playback (Basic) (👉 page 17)

Surround mode (👉 page 20)

Tuning in radio stations (👉 page 21)

❑ **Playing an iPod®** (👉 page 27)

❑ **Playing a USB memory device** (👉 page 29)

❑ **Playing files** (👉 page 30)

❑ **Playing a portable audio player** (👉 page 32)

Playing an iPod®

There are two methods for iPod playback.

- ① **Use a DENON Control dock for iPod to play back.**
You can play back both video, photo and audio.
- ② **Connect an iPod directly to the USB1/iPod port to play back.**
You can play back audio only.

① Use a DENON control dock for iPod to play back

DENON Control dock for iPod usable on this unit
• ASD-11R/ASD-3N/ASD-3W/ASD-51N/ASD-51W

❑ Listening to music on an iPod®

1 Prepare for playback.

- ① Connect the DENON control dock for iPod to this unit (👉 page 24 "Connecting a control dock for iPod").
- ② Set the iPod® in the DENON control dock for iPod.

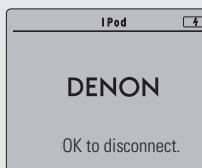
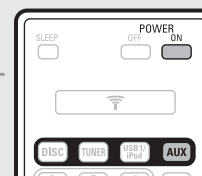
2 Press **POWER ON** to turn on power to the unit.

3 Press **AUX** to switch the input source to "AUX1/DOCK".

- In "Browse mode", the iPod display is as shown at right.

NOTE

If the connections screen is not displayed, the iPod may not be properly connected. Reconnect it.



4 Press **REMOTE/BROWSE** to select the display mode.

- There are two modes for displaying the contents recorded on the iPod.

Browse mode Display iPod information on the display of this unit.

- English letters, numbers and certain symbols are displayed. Incompatible characters are displayed as "." (period).

Remote mode Display iPod information on the iPod screen.

- "Remote DOCK" is displayed on the display of this unit.

Display mode		Browse mode	Remote mode
Playable files	Music file	✓	✓
	Photo file		✓ *
	Video file	✓	✓ *
Active buttons	Remote control unit (This unit)	✓	✓
	iPod®		✓

* Video may not be output, depending on the combination of ASD-11R, ASD-3N, ASD-3W, ASD-51N or ASD-51W DENON control dock for iPod and iPod.

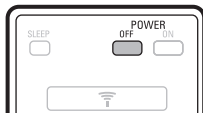
5 Use Δ ∇ to select the item, then press **ENTER** or $\triangleright$ to select the file to be played.

6 Press **ENTER**, $\triangleright$ or **DOCK** $\blacktriangleright$ /**II**. Playback starts.



NOTE

- Press **POWER OFF** and set this unit's power to the standby mode before disconnecting the iPod. Also switch the input source to "AUX1/DOCK" before disconnecting the iPod.



- Depending on the type of iPod and the software version, some functions may not operate.
- Note that DENON will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod.

iPod operation

Operation buttons	Function
△▽◀▶	Cursor operation
ENTER	Enter setting
REMOTE/BROWSE	Browse / Remote mode switching
RETURN	Return
RAND	Shuffling playback
REPEAT	Repeat playback
◀▶▶▶ (Press and hold)	Manual search (fast-reverse/fast-forward)
▶	Playback
DOCK ▶/	Playback / Pause
◀◀▶▶	Skipping to the file
	Pause
■	Stop
DISPLAY	Switches between title name/artist name and title name/album name displays (in Browse mode)
TV POWER	TV power on/standby (Default : SONY)
TV INPUT	Switch TV input (Default : SONY)

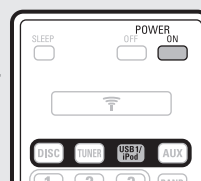


If the input source is set to anything other than "AUX1/DOCK", press **DOCK ▶/||** to switch the function to "AUX1/DOCK".

② Connect an iPod directly to the USB1/iPod port to play back

You can use the USB cable provided with the iPod® to connect the iPod with the unit's USB1/iPod port and enjoy music stored on the iPod.

- This unit supports audio playback from the iPod (fifth generation or later), iPod nano, iPod classic, iPod touch and iPhone (it is not compatible with iPod shuffle).

1 Connect the iPod® to the USB1/iPod port (see page 25 "Connecting an iPod or USB memory device to the USB1/iPod port").**2 Press POWER ON to turn on power to the unit.****3 Press USB1/iPod to switch the input source to "USB1/iPod".****4 Press REMOTE/BROWSE to select the display mode.**

- There are two modes for displaying the contents recorded on the iPod.

Browse mode Display iPod information on the display of this unit.

- English letters, numbers and certain symbols are displayed. Incompatible characters are displayed as "." (period).

Remote mode Display iPod information on the iPod screen.

- "Remote iPod" is displayed on the display of this unit.
- The Remote mode is not supported on fifth generation iPod or first generation iPod nano.



Display mode		Browse mode	Remote mode
Playable files	Music file	✓	✓
	Video file		*
Active buttons	Remote control unit (This unit)	✓	✓
	iPod®		✓

* Only the sound is played.

5 Use △▽ to select the item, then press ENTER or ▶ to select the file to be played.**6 Press ENTER, ▶ or ▶▶. Playback starts.****NOTE**

- Depending on the type of iPod and the software version, some functions may not operate.
- Note that DENON will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod.

iPod operation

Operation buttons	Function
△▽◀▶	Cursor operation
ENTER	Enter setting
REMOTE/BROWSE	Browse / Remote mode switching
RETURN	Return
RAND	Shuffling playback
REPEAT	Repeat playback
◀▶▶▶ (Press and hold)	Manual search (fast-reverse/fast-forward)
▶	Playback
◀◀▶▶	Skipping to the file
	Pause
■	Stop
DISPLAY	Switches between title name/artist name and title name/album name displays (in Browse mode)

Playing a USB memory device

There are two methods for USB memory device playback.

- ❑ Use the USB1/iPod port on the front panel
- ❑ Use the USB2 port on the rear panel
(☞ page 30 “Playing files”)

NOTE

- Note that DENON will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.
- USB memory devices will not work via a USB hub.
- DENON does not guarantee that all USB memory devices will operate or be supplied power. When using a USB portable hard disk that can draw power from an AC adapter, we recommend using the AC adapter.
- It is not possible to connect and use a computer via the USB port of this unit using a USB cable.
- Copy protected files such as DRM (Digital Rights Management) protected files are not playable.

Use the USB1/iPod port on the front panel

Files stored on USB memory devices created in the formats below can be played.

Playable Files (Extension)	File systems	Sampling Frequency	Resolution/size of image/Bitrate	Maximum number of playable files and folders	Tag data
AVI (.avi)	(No Play)	—	—	—	—
WMV (.wmv)	(No Play)	—	—	—	—
JPEG (.jpg)	(No Play)	—	—	—	—
MP3 (.mp3)	FAT16/32	32 / 44.1 / 48 kHz	32-320 kbps	File: 6000 Folder: 2000	ID3-Tag (Ver. 2)
WMA (.wma)	FAT16/32	44.1 / 48 kHz	48-192 kbps		META Tag
AAC (.m4a)	FAT16/32	44.1 / 48 kHz	64-192 kbps		—

NOTE

- If the USB memory device is divided into multiple partitions, only the top partition can be selected.
- It is not possible to play back LPCM, JPEG or DivX files recorded on a USB memory device.
- The characters that can be displayed are as follows:

A-Z a-z 0-9

! " # \$ % & ; , < > ? @ \ [] _ ` { } ~ ^ ' () * + , - . / = (space)

1 Connect the USB memory device to the USB1/iPod port (☞ page 25 “Connecting an iPod or USB memory device to the USB1/iPod port”).

2 Press **POWER ON** to turn on power to the unit.

3 Press **USB1/iPod** to switch the input source to “USB1/iPod”.

4 Use $\Delta \nabla$ to select the item, then press **ENTER** or $\triangleright$ to select the file to be played.

5 Press **ENTER**, $\triangleright$ or $\blacktriangleright$. Playback starts.



USB operation



Operation buttons	Function
$\Delta \nabla \triangleleft \triangleright$	Cursor operation
ENTER	Enter setting
RETURN	Return
RAND	Random playback
REPEAT	Repeat playback
$\ll \gg$ (Press and hold)	Manual search (fast-reverse/fast-forward)
$\blacktriangleright$	Playback
$\ll \gg$	Skipping to the file
II	Pause
$\blacksquare$	Stop
DISPLAY	Switches between title name/artist name and title name/album name displays (in the playback mode)

Playing files

- You can play music files such as MP3 and WMA, picture files such as JPEG and video files such as AVI and WMV recorded onto a CD-R/-RW or a USB memory device (USB2 port only).
- USB memory device and CD-R/-RW disc created in the format described below can be played.

CD-R/-RW and USB2 port

Playable Files (Extension)	File systems	Sampling Frequency	Resolution/size of image/Bitrate	Maximum number of playable files and folders
AVI (.avi)	FAT32	–	1920x1080 / 30 fps	Files: 999 Folder: 999
WMV (.wmv)	FAT32	–	1920x1080 / 30 fps	
JPEG (.jpg)	FAT32	–	4272x2848 pixels	
MP3 (.mp3)	FAT32	44.1 / 48 kHz	Upto 320 kbps	
WMA (.wma)	FAT32	44.1 / 48 kHz	Upto 192 kbps	–
AAC (.m4a)	(No Play)	–	–	



- CD-R/-RW discs recorded with UDF or ISO9660 format can be played back.
- The characters that can be displayed are as follows:

A–Z a–z 0–9 –

If data that has more than 999 files is played back, the display contents may not be shown correctly.

Files playback

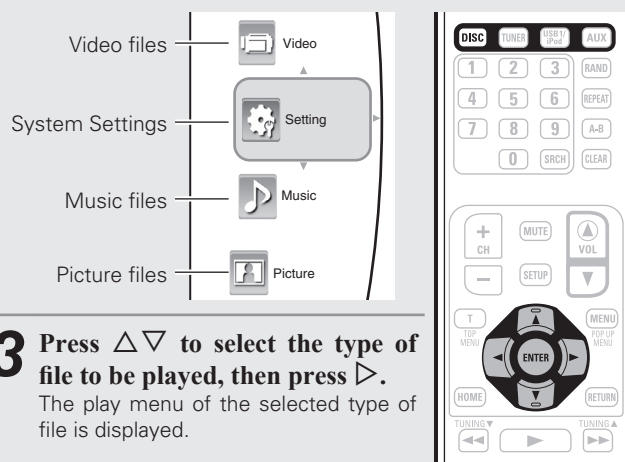
1 Press DISC to switch the input source to “DISC/USB2”.

2 In the stop mode, load a disc or insert a USB memory device into the USB2 port.

The music, picture and video file symbols, etc are displayed on the home menu.

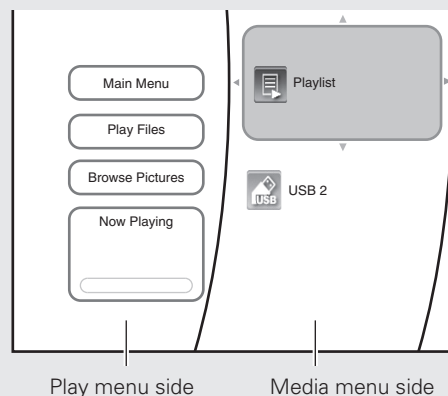
- If a USB memory device is connected to the USB2 port on the rear panel during disc playback, playback of the disc stops, and the home menu is displayed.

[Example] When a USB memory device is inserted



3 Press $\Delta \nabla$ to select the type of file to be played, then press $\triangleright$.

The play menu of the selected type of file is displayed.



4 Use $\Delta \nabla$ to select the desired media in the media menu, then press $\triangleright$.

The folder and files recorded onto the selected media are displayed.

NOTE

- Even if a CD-R/CD-RW or a USB memory device contains a mix of music, picture and video files, you will only be able to browse the selected type of files (music, picture or video).
- When there are no files to be played onto the selected media or folder, “Empty” will be displayed.

5 Use $\Delta \nabla \triangleleft \triangleright$ to select the desired file or folder, then press ENTER.

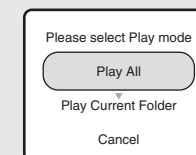
If file is selected, the corresponding dialog box is displayed.

6 Press $\triangleleft$ to go to “play menu side”.

- The number of times $\triangleleft$ needs to be pressed until reaching the “play menu side” differs depending on the folder construction.

7 Use $\Delta \nabla$ to select “Play Files”, then press ENTER.

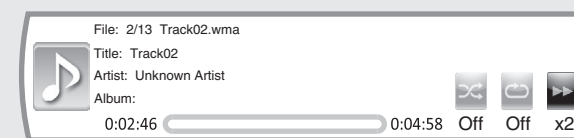
Play mode is displayed.



8 Use $\Delta \nabla$ to select the desired mode, then press ENTER.

Only the selected file will be played (and the file information will be displayed on the TV screen when playing a music file).

[Example] When playing a music file



To make a playlist

1 “Files playback” (page 30) perform steps 1 – 4.

2 Use $\Delta \nabla \triangleleft \triangleright$ to select the desired file or folder, then press **ENTER**.

The corresponding dialog box is displayed depending on whether the playlist is selected as a media or not as follows.

- When selecting the optical disc or the USB2
- When the file added to the playlist is selected



NOTE

When the JPEG file is selected as a type of file to be played, the “Play(File)” cannot be selected.

3 Use $\Delta \nabla$ to select the desired item in the dialog box, then press **ENTER**.

☐ **When selecting “Remove from Playlist”**

- The selected file is cleared in the playlist.
- Repeat the above steps 2 and 3 until other files are cleared.

☐ **When selecting “Add To Playlist”**

- The selected file is added in the playlist.
- Repeat the above steps 2 and 3 until other files are added.

NOTE

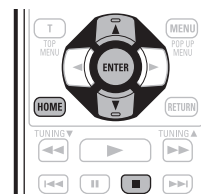
- When a disc is unloaded or the USB memory device disconnected, the files are all cleared in the playlist.
- When the home menu reappears, all picture (JPEG) files are cleared in the playlist.

Selecting an item in the play menu

The items listed in the play menu may vary depending on the operation status and the selected media, etc.

NOTE

- During playback of file, press $\blacksquare$ to display the play menu, etc.
- In the stop mode, use $\Delta \nabla$ to select an item in the play menu, then press **ENTER**.



☐ **When selecting “home menu” with the HOME button**

- The home menu will be returned to.

☐ **When selecting “Play (File)”**

- Press $\Delta \nabla$ to select the desired play mode in the play menu, then press **ENTER**. Then playback will start according to the selected play mode.

NOTE

- When playing JPEG files, each file is displayed for the time interval you specified.
- The selectable play mode may vary depending on the operation status and the selected media, etc.

☐ **When selecting “Browse Pictures” or the “Browse Music”**

- The JPEG file or the music file will be changed to as the type of file to be played.

☐ **When selecting “Add all to playlist”**

- All the files are added in the playlist.

NOTE

You cannot add a folder in the playlist.

☐ **When selecting “Remove all from playlist”**

- All the files are cleared in the playlist.

☐ **When selecting “Previous folder”**

- Each time this item is selected, the previous folder or the previous menu will be returned to.

☐ **When selecting “Now Playing”**

- The playback status for music files is displayed.

☐ **Stop playback** (page 17)

Press $\blacksquare$.

☐ **Pause playback** (page 17)

Press II .

☐ **Step-by-step playback** (page 17)

During pause, press II .

☐ **Fast forward/fast reverse playback** (page 18)

During playback, press $\ll \gg$.

☐ **Slow forward playback** (page 18)

During pause, press $\gg$.

☐ **Skipping to the file** (page 18)

During playback, press $\text{I} \ll \gg \text{I}$.

☐ **Repeat playback** (page 19)

Press **REPEAT**.

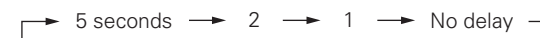
☐ **Random playback** (page 19)

Press **RAND**.

☐ **Rapid playback** **JPEG**

During playback, press $\gg$.

- Each time $\gg$ is pressed, the time interval to display is shortened as follows:



☐ **Displaying file information**

(page 15) **AVI** **WMV** **JPEG**

During playback, press **DISPLAY**.

☐ **Playing the desired section of file** (page 18)

During playback, press **SRCH**.



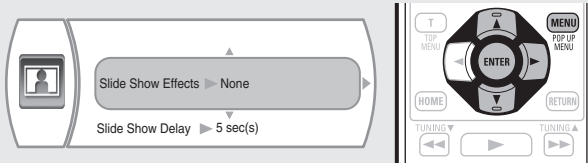
To change the effect on displaying pictures

JPEG

You can display the JPEG files at the slide show options you select.

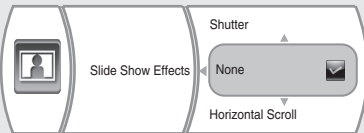
1 During playback, press **MENU**.

The slide show menu is displayed for several seconds.

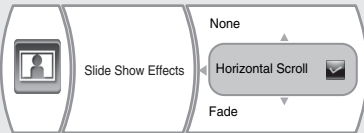


2 Use Δ / ∇ to select the desired item, then press $\triangleright$.

The selected item menu is displayed.

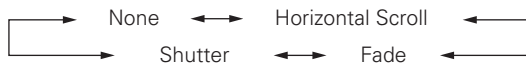


3 Use Δ / ∇ to select the desired option, then press **ENTER**.



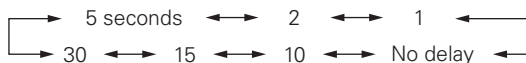
❑ When selecting the slide show effects

- You can select the desired of different display modes as follows:



❑ When selecting the slide show delay

- You can select the desired of different time intervals to display the JPEG files as follows:



Playing both the music files and the JPEG files simultaneously

WMA MP3 JPEG

1 During playback of music files, press **ENTER**.

The play menu, etc. are displayed.

2 Use Δ / ∇ to select “Browse Pictures” in the play menu, then press **ENTER**.

3 Use Δ / ∇ to select “USB2” in the media menu, then press $\triangleright$.

4 Use Δ / ∇ / $\triangleleft$ / $\triangleright$ to select the desired JPEG file or folder, then press **ENTER**.

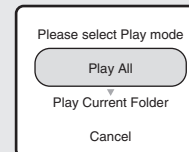
If file is selected, the corresponding dialog box is displayed.

5 Press $\triangleleft$ to go to “play menu side”.

- The number of times $\triangleleft$ needs to be pressed until reaching the “play menu side” differs depending on the folder construction.

6 Use Δ / ∇ to select “Play Files”, then press **ENTER**.

Play mode is displayed.



7 Use Δ / ∇ to select the desired mode, then press **ENTER**.

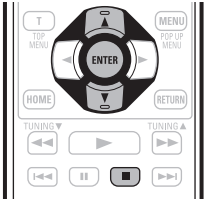
8 Select the some JPEG files to be played and play them in the desired play mode.

You can view JPEG files while listening to music files.

- While playing both the music files and the JPEG files, the playback controls are effective for the JPEG files only.

❑ To control the music files

- Press $\blacksquare$ to stop the playback of the JPEG files.
The play menu, etc. will be displayed.
- Use Δ / ∇ to select the “Now Playing” in the play menu, then press **ENTER**.
The music file information is displayed and you can control the music files.



Playing a portable audio player

Your portable audio player can be connected to this unit's portable jack to play tracks on the portable audio player.

1 Connect the portable audio player to the **PORTABLE IN** jack (see page 25 “Connecting a portable audio player”).

2 Press **POWER ON** to turn on power to the unit.

3 Press **AUX** to switch the input source to “PORTABLE IN”.

4 Play the portable audio player.

- Also read the portable audio player's operating instructions.



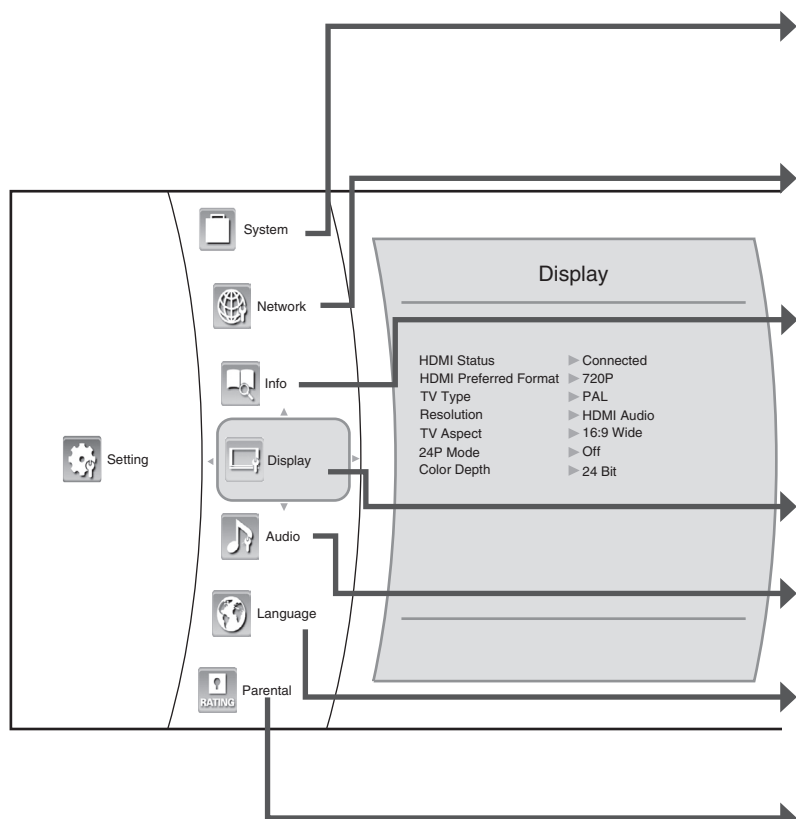
NOTE

When using the portable player's headphone jack, set the volume on the portable player to an appropriate level.

How to make detailed settings

Menu map

For menu operation, connect a TV to this unit and display the menu on the TV screen. For menu operations, see the following page.



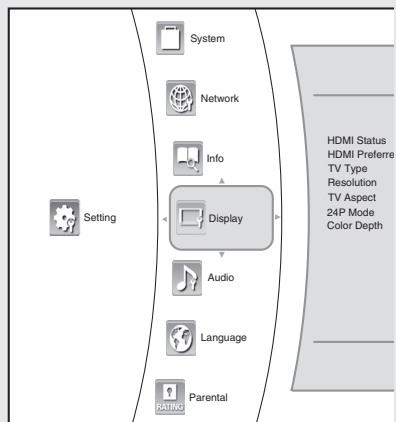
Setting items	Detailed items	Description	Page
System	Optical Disc AutoPlay	Set whether to automatically play a disc or not when loading it or turning on the Power under the condition that it is loaded.	34
	BD-Live Internet Access	Set the access restriction to BD-LIVE contents.	34
	BD-Live Storage (USB)	Set whether BD-LIVE contents is store into the USB memory device or the internal memory of this unit.	34
	Erase Blu-ray Storage?	Erase the Virtual Package and BD-LIVE contents stored into the internal memory and the USB memory storage.	34
	Screen Saver Duration	Set the period of time to activate screen saver function.	34
	Reset Settings	Reset all settings to the factory default except the Parental settings, etc.	35
Network	Wired	Configures network settings depending on your internet environment, etc. when connecting to the internet.	35
	Network Test	Detects the internet connection and automatically configures the network settings by the DHCP server function of the router or modem.	35
Information		System information of this unit checked by the service adviser.	–
Display	TV type	Set the video signal format depending on that of your TV and disc.	36
	Resolution	Set the resolution of the HDMI video signal.	36
	TV Aspect	Set the picture size according to aspect ratio of your TV.	36
	24P Mode	Set whether to output 1080/24p video signals from HDMI OUT connector when playing film-based materials (24 frame) on BD discs.	36
	Color Depth	Set whether to output the HDMI video signal with the color depth effect or not.	36
Audio	HDMI Output	Select HDMI audio output device.	36
	Dynamic Range Control	During Dolby Digital, Dolby Digital Plus or Dolby TrueHD audio playback, the dynamic range (range difference between quiet sounds and loud sounds) is compressed.	36
Language	OSD	Set the language for unit's OSD (On-Screen Display).	37
	Menu	Set the language for disc menu or pop-up menu.	37
	Audio	Set the language for audio.	37
	Subtitle	Set the language for subtitle.	37
Parental	Parental Control	Set whether or not to parental control.	37
	Parental Level	Set the parental control level.	37
	Parental Password	Change the password for the parental control settings.	37

OSD (on-screen display) menu operation

When the input source is "DISC/USB2", settings for audio and video can be performed from the OSD menu.

The OSD (On-Screen Display) menu enables various audio/visual settings and adjustments.

- 1** In the stop mode, press $\Delta \nabla$ to select "Settings" in the home menu, then press **ENTER**.



- During playback of BD-Video, DVD-Video or CD, if **■** or **HOME** is pressed, then the home menu will be displayed.
- During playback of music, JPEG or video files, if **HOME** is pressed, then the home menu will be displayed.

- 2** Use $\Delta \nabla$ to select the desired setting category, then press $\triangleright$.



- 3** Use $\Delta \nabla$ to select the desired setting item, then press $\triangleright$.

The selected item's option menu will be displayed.

- 4** Use $\Delta \nabla$ to select the desired option, then press **ENTER** to confirm your selection.

The previous screen will be displayed.

- To go back to the previous screen, press $\triangleleft$ or **RETURN**.

Settings

System (👉 page 34)

Network (👉 page 35)

Display (👉 page 36)

Audio (👉 page 36)

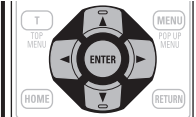
Language (👉 page 37)

Parental (👉 page 37)

System

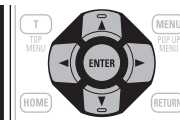
Default settings are underlined.

Perform system-related settings.

Items	Setting details
Optical Disc AutoPlay Set whether to automatically play a disc or not when loading it or turning on the Power under the condition that it is loaded.	On : Starts play automatically. Off : Turns off the autoplay.
BD-Live Internet Access Set the access restriction to BD-LIVE contents.	Limit Access : Allows only the BD disc with owner certification to access contents from a BD-LIVE website. Always Allow Access : Allows all BD-LIVE discs to access contents from BD-LIVE websites. Prohibit Access : Prohibit all BD-LIVE discs from accessing contents from BD-LIVE websites.  • The available functions differ depending on the disc. • Regarding playback method of BD-LIVE contents, etc., perform the operations in accordance with the instructions in the BD-LIVE disc manual. • To enjoy BD-LIVE functions, perform the broadband internet connection and communication settings. (For details, refer to "Connecting to the network" (👉 page 26) and "Network" (👉 page 35).)
BD-Live Storage (USB) BD-LIVE contents is stored into the USB memory device.	USB2 (more than 1 GB) Displays the storable memory capacity.
Erase Blu-ray Storage? Erase the Virtual Package and BD-LIVE contents stored into the USB memory storage.	1. Use $\Delta \nabla$ to select "Erase Blu-ray Storage?", then press ENTER . 2. Use $\triangleleft \triangleright$ to select "Ok", then press ENTER . 
Screen Saver Duration Set the period of time to activate screen saver function. A TV screen may be burned out if a static picture is displayed for a long time in the stop mode, etc.. To prevent this, the unit automatically activate the screen saver function if a static picture is displayed over the period of time you set.	Off : Inactivates screen saver function. 5/10/20/30 Minutes : Activates screen saver function if a static picture is displayed over the period of time you set.  To inactivate screen saver function, press any button.



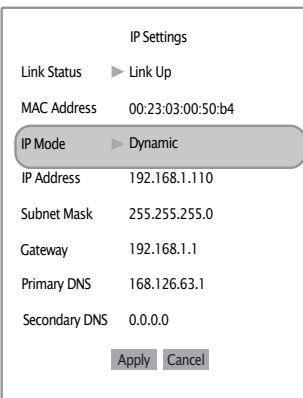
System

Items	Setting details
Reset Settings Reset all settings to the factory default except the Parental settings, etc.	- Use $\Delta \nabla$ to select "Reset Settings", then press ENTER. - Use $\triangleleft \triangleright$ to select "Ok", then press ENTER. 
NOTE "Parental" (page 37) is not reset.	

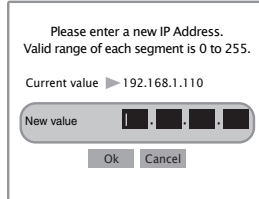
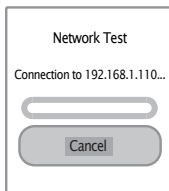
Network

Default settings are underlined>.

- You can use a disc which offers BD-LIVE function by connecting the unit to the Internet (page 26 "Connecting to the network").
- When you set the communication setting manually, the following information of the connected router or modem is required. Confirm the information prior to the setting : IP address, Subnet mask, Gateway, Primary DNS and Secondary DNS.

Setting items	Setting details
Wired Configures network settings depending on your internet environment, etc. when connecting to the internet.	- Use $\Delta \nabla$ to select "Wired", then press ENTER. - Use $\Delta \nabla$ to select "IP Mode", then press ENTER. Off : Disables this unit's LAN capabilities. Manual : Configures network settings manually. Dynamic : Automatically configures the network settings by the DHCP server function of the router or modem. - Use $\Delta \nabla$ to select the desired IP mode, then press ENTER. ☐ When selecting "Off" The values for IP Address, Subnet Mask, Gateway, Primary DNS and Secondary DNS are all cleared. 

Network

Setting items	Setting details
Wired (Continued)	☐ When selecting "Manual" - You can select IP Address, Subnet Mask, Gateway, Primary DNS and Secondary DNS to configure them manually. - On the IP Settings menu, "Link Status" and "Mac Address" display the corresponding information merely. ① Use $\Delta \nabla$ to select the desired option, then press ENTER.  ② Enter the new value pressing 0 - 9, then press ∇ to select "OK" and press ENTER. ③ Repeat the above steps ① and ② until other new values are all entered. ④ Use $\Delta \nabla$ to select "Apply", then press ENTER. Then the network test is automatically performed and the result is displayed. ⑤ Press ENTER to confirm the test result. The network menu will be displayed. ☐ When selecting "Dynamic" Then the network test is automatically performed and the result is displayed. ① Use $\Delta \nabla$ to select "Apply", then press ENTER. Then the network test is automatically performed and the result is displayed. ② Press ENTER to confirm the test result. The network menu will be displayed.
Network Test Detects the internet connection and automatically configures the network settings by the DHCP server function of the router or modem.	- Use $\Delta \nabla$ to select "Network Test", then press ENTER. - Then the network test is automatically performed and the result is displayed. - Press ENTER to confirm the test result. The network menu will be displayed. 



Display

Default settings are underlined.

Set the video output signal according to the connected TV.

Items	Setting details
TV type Set the video signal format depending on that of your TV and disc.	NTSC : Select this when the video signal format of your TV and the discs is NTSC color system for U.S.A., Canada, etc.. PAL : Select this when the video signal format is PAL color system for Europe, Australia, China, etc.. NOTE If the color system of this unit is different from that of your TV and the discs, the screen may be somewhat hard to see or the picture quality may be poor. Only in this case, set the video signal format to another.
Resolution Set the resolution of the HDMI video signal.	HDMI Auto : HDMI video resolution will be selected automatically depending on the HDMI compatible TV. 1080p : Outputs 1080 lines of progressive video. 1080i : Outputs 1080 lines of interlaced video. 720p : Outputs 720 lines of progressive video. 576p : Outputs 576 lines (PAL) (or 480 lines (NTSC)) of progressive video. 576i : Outputs 576 lines (PAL) (or 480 lines (NTSC)) of interlaced video.
TV Aspect Set the picture size according to aspect ratio of your TV.	16:9 Wide : Select this when a wide-screen TV is connected. Discs recorded in widescreen format is played back over the entire TV screen. 16:9 Pillarbox : When playing back 4:3 images, the picture is displayed in the center of the 16:9 screen with a 4:3 aspect ratio. 4:3 Pan and Scan : Select this to play back the discs recorded in wide-screen format with 4:3 TV in the pan and scan mode (with the sides of the picture cut off). Discs which are not specified for pan and scan are played back in the letter box mode. 4:3 Letterbox : Select this to play back the discs recorded in wide-screen format with 4:3 TV in the letter box mode (with black strips at the top and bottom).
24P Mode Set whether to output 1080/24p video signals from HDMI OUT connector when playing film-based materials (24 frame) on BD discs.	On : Select this to output 1080/24p video signals from HDMI OUT connector when playing film based materials (24 frame). Off : Select this when playing a materials other than film based materials (24 frame). NOTE • 1080/24p video signals are only output from the HDMI OUT connector. • 1080/24p video signals can be output when the following conditions are met. • HDMI OUT connector is connected to TV compatible with 1080/24p video signals. • Resolution is set to "HDMI Auto" or "1080p".

Display

Items	Setting details
Color Depth Set whether to output the HDMI video signal with the color depth effect or not.	36 Bit : Select this to output the HDMI video signal with the 36 Bit color depth to TV which supports 36 Bit HDMI deep color. 30 Bit : Select this to output the HDMI video signal with the 30 Bit color depth. 24 Bit : Select this to output the HDMI video signal without the color depth effect to TV which does not support HDMI deep color.  For details on HDMI deep color which TV supports, refer to the operating instructions of TV.

Audio

Default settings are underlined.

Perform audio-related settings.

Items	Setting details
HDMI Output Select HDMI audio output device.	On (Auto) : HDMI audio is output from the TV connected to this unit. Off Speaker : Audio is output from the speakers connected to this unit. NOTE When an audio CD recorded in DTS-ES or Dolby Digital EX is played, no sound may be heard.
Dynamic Range Control During Dolby Digital, Dolby Digital Plus or Dolby TrueHD audio playback, the dynamic range (range difference between quiet sounds and loud sounds) is compressed.	On : Turns on the dynamic range compression to hear low sounds easier. Off : Turns it off. Auto : When Dolby TrueHD audio is played back, the dynamic range is automatically adjusted. NOTE Depending on status of connected TV HDMI, the dynamic range control may not be effect.



Language

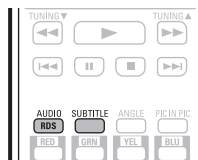
Default settings are underlined.

Set the language used for OSD, menus, playback dialogs and subtitle.

Items	Setting details
OSD Set the language for unit's OSD (On-Screen Display).	<u>English</u> / French / Spanish / Italian / German / Russian
Menu Set the language for disc menu or pop-up menu.	<u>Auto</u> : Selects the language given priority in the disc. English / French / Spanish / Italian / German / Portuguese / - - - - - / Urdu / Vietnamese / Yoruba
Audio Set the language for audio.	<u>Auto</u> : Selects the language given priority in the disc. English / French / Spanish / Italian / German / Portuguese / - - - - - / Urdu / Vietnamese / Yoruba
Subtitle Set the language for subtitle.	<u>Off</u> : Displays no subtitles. English / French / Spanish / Italian / German / Portuguese / - - - - - / Urdu / Vietnamese / Yoruba

NOTE

Depending on the discs, it may not be possible to change to the selected language. In this case, change the "Audio" and "Subtitle" by pressing **AUDIO/RDS** or **SUBTITLE** on the remote control.



Parental

The parental control allows you to set a limit, which prevents your children from viewing inappropriate materials. If the ratings exceed the levels you set, playback will be stopped, or inappropriate scenes such as violent scenes can be cut or replaced with other scenes depending on the disc type.

NOTE

- When you set the parental level low, some discs may not be played at all, in this case, set the parental level higher or the parental control to off.
- All discs may not respond to the parental level setting. Make sure this function works with your disc.

Setting items	Setting details
Parental Control Set whether or not to parental control.	On : Parental control restricts playing discs according to parental level you set. Off : Parental control is inactive; all discs are played back. ☐ When selecting “On” The parental password entry screen appears as follows. Please enter a new parental control password: Password Ok Cancel DISC TUNER USB/iPod AUX 1 2 3 RAND 4 5 6 REPEAT 7 8 9 A-B 0 SEARCH CLEAR 1. Press 0 - 9 to enter the 4-digit numbers, press ▽ to select “Ok”. 2. Press ENTER. The parental menu will be displayed. NOTE Do not forget the password. The default setting is “3308”.
Parental Level Set the parental control level.	1 [Kid Safe] : Suitable for children. 2 [G] : General audience. 3 [PG] : Parental guidance suggested. 4 [PG-13] : Unsuitable for children under 13. 5 [PG-R] : Parental guidance recommended. 6 [R] : Restricted; under 17 requires accompanying parent or adult guardian. 7 [NC-17] : No one under 17 admitted. 8 [Adult] : Discs of any grades (adult/general/children) can be played back.  The lower the level value, the stricter the limitation.
Parental Password Change the password for the parental control settings.	1. Press 0 - 9 to enter the new 4-digit numbers, press ▽ to select “Ok”. 2. Press ENTER. The parental password entry screen for confirmation appears. 3. Perform the above step 1 and 2.



Other setting

Also, you can make the following settings on this unit.
These settings are not displayed on the TV.
They are only displayed on the unit's display.

Timer setup (👉 page 38)

Audio delay (👉 page 39)

Speaker optimise (👉 page 39)

Auto standby (👉 page 40)

Registering preset codes (👉 page 40)

Other functions (👉 page 40)

Timer setup

You can set the timers (Everyday timer / Once timer) for playback input sources from "DISC", "TUNER", and "USB1/iPod".

Timer order of priority

The order of priority when the times set for the different timers overlap is as follows:

1. Sleep timer
2. Once timer
3. Everyday timer



If the current time is not set, enter timer setting mode to get time setting mode.

Setting the timer

• Everyday timer ("EVERY DAY")

Playback starts and stops (the power turns off) at the set times each day.

• Once timer ("ONCE")

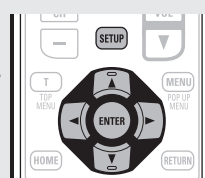
Playback starts and stops (the power turns off) once only at the set times.

NOTE

- When the input source is set to "DISC/USB2", use CD-DA. Many BD-Video/DVD-Video cannot be played back using this function. Also, files from a CD-R/-RW disc and USB memory device (USB2 port) cannot be played back.
- If the input source is "DISC/USB2", and files are being played back from the USB memory device (USB2 port) with the power on, playback does not switch to disc playback even when the timer start time is reached.

1 Press **SETUP**.

2 Use Δ ∇ to select "TIMER SETUP", then press **ENTER** or $\triangleright$.



3 Use Δ ∇ to select the timer mode, then press **ENTER** or $\triangleright$.



4 Use Δ ∇ to select the input source, then press **ENTER** or $\triangleright$.



5 **Only when the input source "TUNER" function is selected**

Use Δ ∇ to select the preset number, then press **ENTER** or $\triangleright$.

- When no name has been registered for the selected preset number, the frequency appears after the preset number is displayed.

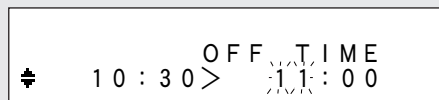
6 Use Δ ∇ to select "hours" for the timer start time, then press **ENTER** or $\triangleright$.



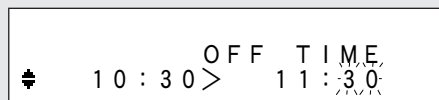
7 Use Δ ∇ to select "minutes" for the timer start time, then press **ENTER** or $\triangleright$.



- 8** Use Δ/∇ to select “hours” for the timer stop time, then press **ENTER** or $\triangleright$.



- 9** Use Δ/∇ to select “minutes” for the timer stop time, then press **ENTER** or $\triangleright$.



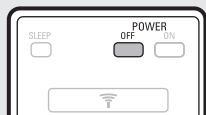
- 10** Use $\triangleleft/\triangleright$ to select “ON” or “OFF” for the timer, then press **ENTER**.

- The indicator lights and the timer setting is entered.
- The timer settings are displayed for 3 seconds.



- 11** Press **POWER OFF** to set the power to standby.

- Timer standby mode is set, and the timer indicator lights orange.



□ Setting the timer to on or off

- ① Press **SETUP**.
- ② Use Δ/∇ to select “TIMER ON/OFF”, then press **ENTER**.
- ③ Use Δ/∇ to select “ONCE” or “EVERYDAY”.
- ④ Use $\triangleleft/\triangleright$ to select “ON” or “OFF” for the timer, then press **ENTER**.

The timer settings are displayed after this.

- When set to “OFF”, time operation is disabled, but the timer settings remain unchanged.

Timer setup

□ To check the timer settings

- ① Press **SETUP**.
- ② Use Δ/∇ to select “TIMER ON/OFF”, then press **ENTER**.
- ③ When “ON” is displayed for the timer setting, press **ENTER**.
The timer settings are displayed for 3 seconds.

□ To change the timer settings

Perform the operations at “Setting the timer” (page 38).

□ To change the setting while setting the timer

Press $\triangleleft$ or **RETURN**.

- The setting returns to the previous step.
- Display the setting you want to change, then make the desired setting.

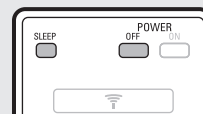


Setting the sleep timer

Use this function to automatically switch the power to the standby mode after a specific amount of time (minutes).
The sleep timer can be set to up to 120 minutes.

During playback, press **SLEEP** and display the time you want to set.

- After about 5 seconds, the setting is entered and the display returns to as it was before.



□ Canceling the sleep timer

Either press **SLEEP** to select “SLEEP OFF” or press **POWER OFF**.

□ To check the time remaining until the sleep timer is activated

Press **SLEEP**.

Audio delay

When the input source is “DISC/USB2”, timing delays between the audio and images can be corrected while images are viewed.

1 Press **SETUP**.

2 Use Δ/∇ to select “AUDIO DELAY”, then press **ENTER** or $\triangleright$.

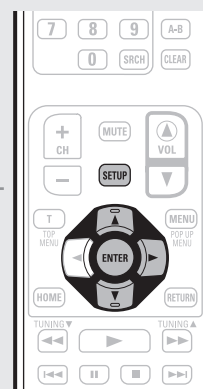


3 Use Δ/∇ to adjust a delay time.



- Range : 0 to 160 msec
- Step : 10 msec
- Default : 0 msec

4 Press **ENTER** or $\triangleright$.



Speaker optimise

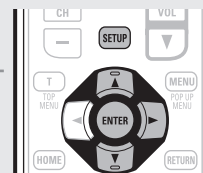
An optimizing filter suited for the properties of the speakers (SC-X1000) can be used.

1 Press **SETUP**.

2 Use Δ/∇ to select “SPK OPTIMISE”, then press the **ENTER** or $\triangleright$.

3 Use Δ/∇ to select “ON”, then press **ENTER** or $\triangleright$. The setting is entered.

- ON** The response is optimized for the speakers (SC-X1000, sold separately).
- OFF** The response is flat.



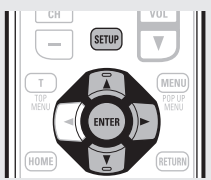
Auto standby

With the auto standby on, this unit will automatically enter the standby mode after about 30 continuous minutes of stop mode with no operation.

1 Press **SETUP**.

2 Use $\triangle$ ∇ to select “**AUTO STANDBY**”, then press **ENTER** or $\triangleright$.

3 Use $\triangle$ ∇ to select “**ON**”, then press **ENTER** or $\triangleright$.
The setting is entered.



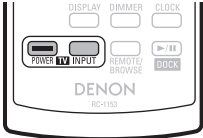
- NOTE**
- In the following situations, the Auto standby function does not operate.
- When an iPod or USB memory device is connected to the USB1 port on the unit.
 - When the input source is “TUNER”, “AUX1” or “AUX2”.
 - When the input source is “AUX1/DOCK”, and an iPod is connected to control dock for iPod. (ASD-11R only)
 - When the input source is “PORTABLE IN” and a device is connected to the portable jack.

Registering preset codes

Registering preset codes on the supplied remote control unit will enable turning on/standby and selecting the input source of your TV using the remote control. Use the preset codes table at the end of this manual to register the preset codes.

Buttons used for operating the TV

- TV POWER
- TV INPUT



1 Press and hold **POWER OFF** and **SLEEP** for at least 3 seconds.
The signal transmission indicator flashes twice.

2 Press **0 – 9** and input the 4-digit number of the brand of the component to be preset. The numbers are shown in the preset code table (👉 End of this manual).



- 
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and verify correct operation.
 - The default setting is “Sony”.

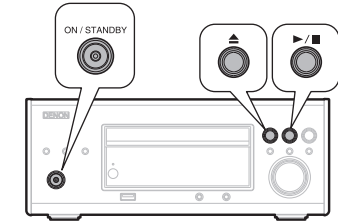
NOTE

Depending on the model and year of manufacture of your equipment, some buttons may not operate.

Other functions

Auto power on

When the power is in standby, the power turns on when any of the buttons below other than **POWER ON** on the remote control unit or **ON/STANDBY** on the main unit is operated, and the respective operation is performed.



$\blacktriangle$	The disc tray opens.
$\blacktriangleright$ or $\blacktriangleright/\parallel$	The input source selected directly before the power was switched to standby is played back. • If the last input source was “DISC/USB2”, “AUX1”, “AUX2” or “PORTABLE IN”, the disc set in the main unit is played back. (Certain types of disc cannot be played back.) • When the control dock for iPod is connected to the AUX IN 1 connectors and the input source is “AUX1/DOCK”, the control dock for iPod starts playing when $\blacktriangleright$ is pressed.
DISC	The input source switches to “DISC/USB2” and the disc starts playing. (When “Optical Disc AutoPlay” (👉 page 34) is “On”)
TUNER	Playback of the tuner starts.
USB1/iPod	The input source switches to “USB1/iPod” and the USB memory device starts playing.
AUX	The input source switches to “AUX”.

Last function memory

This stores the settings as they were immediately before going into the standby mode. When the power is turned back on, the settings are restored to as they were immediately before going into the standby mode.

Other information

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Explanation terms

Numerics

4:3 LB (letterbox)

When a wide (16:9) disc is played back by connecting a 4:3 TV and this unit, this function plays back the image with black area at the top and bottom.

4:3 PS (pan scan)

When a wide (16:9) disc is played back by connecting a 4:3 TV and this unit, this function cuts left and right of the played back image to the 4:3 size according to the disc's control information.

A

AAC (Advanced Audio Coding)

This is an internationally standardized audio data compression scheme. It has a compression ratio 1.4 times higher than the "MP3 audio compression scheme adopted for "MPEG-1.

Aspect ratio

This is the length and width ratio of the TV screen. The conventional TV's screen ratio is 4:3 and the wide screen TV's screen ratio is 16:9.

Audio commentary

This is an audio program included as a bonus feature in a DVD-Video or BD-Video. It uses a multi-audio function to provide an audio explanation or commentary by members of the crew or director, etc. to accompany the video.

AVCHD (Advanced Video Codec High Definition)

This is a high-definition digital camera (HD) standard using high-efficiency encoding technology for recording high-definition Hi-Vision signals to various media.

AVI (Audio Video Interleaving)

A format developed by Microsoft for handling video with audio on Windows computers. The RIFF format used when storing multimedia data on Windows is applied, and the format gets its name from the way in which the audio data and video data are interwoven.

B

BD-J (Blu-ray Disc Java)

With BD-Videos, there are fun software with more interactive functions (games) using Java applications.

BD-LIVE

This unit can be connected to the Internet to enjoy a number of features, including additional contents such as special videos or subtitles, network games, etc.

Bit rate

This expresses the read amount per 1 second of video/audio data recorded in a disc.

Blu-ray Disc

This is one-side 1 layer disc having 25 GB capacity and can record high vision video movie and games.

Bonus View

Special images for BD-Videos. It includes comment of the movie director, simultaneously developing sub-story, and images from different angles.

C

Chapter

This is a break intended by a producer who organizes the title of Blu-ray Disc or DVD-Video. The chapter search function searches the beginning of this break.

D

Deep Color

This technology allows expression of more number of colors than the conventional 8 bits and can reproduce colors close to natural ones without color streak.

DHCP (Dynamic Host Configuration Protocol)

This mechanism automatically perform network configuration such as IP address for network devices including the unit, PC, and broadband router.

Dolby Digital

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1 channels are played: 3 front channels ("FL" , "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A realistic, powerful sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Digital EX

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the "DOLBY DIGITAL SURROUND EX" audio format jointly developed by Dolby Laboratories and Lucas Films.

The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1 channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

Dolby Headphone

The Dolby Headphone technology provides a surround sound listening experience over headphones.

When listening to multichannel content such as DVD movies over headphones, the listening experience is fundamentally different than listening to speakers. Since the headphone speaker drivers are covering the pinna of the ear, the listening experience differs greatly from traditional speaker playback. Dolby utilizes patented headphone perspective curves to solve this problem and provides a non-fatiguing, immersive, home theater listening experience. Dolby Headphone also delivers exceptional 3D audio from stereo material.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. Dolby TrueHD is adopted for applications that put very high importance on sound quality.

Dolby Virtual Speaker

This is technology from Dolby Laboratories.

It is a surround system using just two speakers to create the effect of surround sound, with sound even coming from behind you as if it was a 5.1-channel system.

Downmix

This function converts the number of channels of surround audio to less number of channels and plays back.

DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. When playing back audio by connecting this system with a device such as DTS amplifier, accurate sound field position and realistic sound effect as if you are in a movie theater can be obtained.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1 channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1 channels of digital discrete surround sound.

DTS-ES™ Discrete 6.1

DTS-ES™ Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES™ Matrix 6.1

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS Express

DTS Express is an audio format supporting low bit rates (max. 5.1 channels, 24 to 256 kbps).

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray Disc. This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1-channels are supported in Blu-ray Disc.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1 channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio format created by Digital Theater System (DTS). This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

Dynamic range

The difference between the maximum undistorted sound level and the minimum sound level that is discernible above the noise emitted by the device.

F**Finalise**

This is processing that enables playing back of disc of BD/DVD/CD, which was recorded using a recorder, by other players.

H**HDCP**

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

HDMI

This is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. Video signal and audio signal can be connected using 1 cable.

I**Interlacing (interlaced scanning)**

This conventional method used to project images on a TV displays 1 frame of image in half and half, respectively as 2 fields.

Interactive audio

Audio such as click sound that is generated during operation and is recorded in the title of BD-Videos.

J**JPEG (Joint Photo graphic Experts Group)**

This is a still picture data compression standard. Its ability to reduce the size of a file with relatively little deterioration in image quality means that it is widely used for storing images in video cameras, etc.

L**Linear PCM**

This signal is uncompressed PCM (Pulse Code Modulation) signal. This is the same system as the CD audio but this uses 192 kHz, 96 kHz, and 48 kHz sampling frequencies in Blu-ray Disc or DVD and provides higher sound quality than CD.

M**MP3 (MPEG Audio Layer-3)**

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

P**Picture-in-picture**

This BD-Video function allows you to view making or commentary scenes in the secondary video while viewing the main story in the primary video.

Pop-up menu

This menu recorded in Blu-ray Disc software. While playing back a Blu-ray Disc, this menu can be displayed on the front of the screen and can be operated.

Primary audio

This audio signal is recorded in the main story in BD-Video.

Progressive (sequential scanning)

This is a scanning system of video signal that displays 1 frame of video as one image. Compared to the interlace system, this system provides images with less flickering and bleeding.

Protection circuit

This is a function to prevent damage to components within the power supply when an abnormality such as an overload or excess voltage occurs for any reason.

In this unit, the power indicator blinks and the unit enters standby mode when an abnormality occurs.

R**Rating**

Depending on the age of the viewer, this function restricts playing back of BD-Video or DVD-Video. This unit can be set to restrict viewing in 0 to 254 level for BD-Video, and 1 to 8 level for DVD-Video.

Region code

This code indicates country or region where the Blu-ray Disc or DVD-Video can be played back.

S**Sampling frequency**

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

Secondary audio

This is audio signals of comment of movie director and other data recorded in the bonus view of BD-Video.

Speaker impedance

This is an AC resistance value, indicated in Ω (ohms). Greater power can be obtained with this value smaller.

T**Title**

This is the unit of content that consists of chapters of Blu-ray Disc or DVD-Video. Some Blu-ray Disc or DVD-Video may include multiple titles.

V**Virtual Package**

For BD-Video discs compatible with Virtual Package, contents are copied from the discs or internet to local storage. It is automatically copied to the local storage prior to playback. You can enjoy a variety of additional functions including secondary video, secondary audio, subtitles, movie trailer, etc.

- The playback methods vary depending on the disc. (For details, refer to the disc manual.)

W**WMA (Windows Media Audio)**

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media® Player Ver.7, 7.1, Windows Media® Player for Windows® XP and Windows Media® Player 9 Series.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

WMV (Windows Media Video)

A video format developed by Microsoft based on the video compression standard MPEG-4.

This is one of the formats supported as standard by Windows Media Player, the standard media player in the Windows operating system.

It was designed based on the assumption of network delivery, and has such features as a high compression rate, support for streaming playback, and support for DRM (Digital Rights Management Technology) to control copying.

Getting Started	Basic Connections	Basic Operations	Advanced Connections	Advanced Operations	Settings	Other setting	Other information	Explanation terms	Troubleshooting	Specifications	Index
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Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?

2. Is the set being operated as described in the owner's manual?

3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

[General]

Symptom	Cause/Solution	Page
Power does not turn on.	• Check whether the power plug is correctly inserted into the power outlet.	11
	• Check whether the power cord is correctly inserted into the AC inlet.	11
	• The protection circuit is active. Disconnect the power plug from the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet.	8
Display is off.	• The dimmer setting is set to "Off". Set to something other than "Off".	13
The timer indicator is blinking in intervals of approximately 0.5 seconds.	• The temperature inside the unit has risen. Please disconnect the power plug from the electric outlet, and insert it back into the outlet after the temperature has fallen sufficiently. (Please re-install this unit in a place having good ventilation.)	–
	• The speaker cable has shorted (is touching). Firmly twist the core wire in the speaker cable, and re-connect it to the speaker terminal. Then, disconnect the power plug from the electric outlet, and insert it back into the outlet.	8
The timer indicator is blinking in intervals of approximately 0.25 seconds.	• The protection circuit is active. Disconnect the power plug from the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet.	8
After turning on the power, the timer indicator is blinking in intervals.	• The unit has failed. Turn off the power and please contact the DENON service adviser.	–
Set does not operate properly.	• Reset the microprocessor.	46
A disc that cannot be played back was inserted, and now cannot be removed.	• Press ON/STANDBY button on the unit to switch to standby mode, then press  to open the disc tray and remove the disc.	–

[Video]

Symptom	Cause/Solution	Page
No picture appears.	• Check the TV connection. • Set the TV input correctly.	9 –
No picture appears, the picture is disrupted, or the Blu-ray disc or DVD video picture appears in black and white.	• The picture may be slightly disturbed directly after fast-forwarding or reversing. This is not a malfunction.	18
	• Discs not compatible with this unit, or discs with different region codes, cannot be played back. The region codes compatible with this unit include "B" for BD-Video and "2" or "ALL" for DVD-Video.	14

[Audio]

Symptom	Cause/Solution	Page
Audio is not output.	• Check the connections for all devices.	9, 10, 24, 25
	• Check the speaker connections.	8
	• Check whether the audio device power is turned on.	–
	• Adjust the master volume.	13
	• Cancel the mute mode.	13
	• Select a suitable input source.	12
No sound is produced from subwoofer.	• Disconnect the headphones. No sound is output from the speakers or the PRE OUT connector when headphones are connected.	13
No sound is produced from subwoofer.	• Check the subwoofer connections. • Turn on the subwoofer's power.	8 –
DTS sound is not output.	• Check the speaker and HDMI connections.	8, 9
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.	• Check the speaker and HDMI connections.	8, 9

[HDMI]

Symptom	Cause/Solution	Page
No audio is output with HDMI connection.	• Check the connection of the HDMI connectors.	9
	• To output HDMI audio from a connected device, set "HDMI Output" in the OSD menu to "Off Speaker".	36
No video is output with HDMI connection.	• Check the connection of the HDMI connectors.	9
	• Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly.	–
	• Check whether the HDMI video resolution set in this unit is compatible with the TV resolution. If set to "HDMI Auto", this unit sets it automatically.	36

[Blu-ray Disc]

Symptom	Cause/Solution	Page
Picture freezes momentarily during playback.	- The disc may not play back correctly if it is scratched or dirty. Either clean the disc or replace it. - There may be a problem with the recorded disc.	–
Playback does not start even when ► is pressed, or starts but stops immediately.	Check whether there is condensation on the inside of the unit or disc. If there is condensation, turn off the power and let the unit stand for 1 to 2 hours.	2
	The disc may not play back correctly if it is scratched or dirty. Either clean the disc or replace it.	3
	Check whether the disc has been inserted upside down. Insert the disc so that the recording surface to be played back faces downward.	3
	Check whether a disc that cannot be played back on this unit has been inserted.	14
Subtitles are not displayed.	Subtitles cannot be displayed for BD-Video or DVD-Video files that do not contain subtitles.	20
	Check whether the subtitles setting is set to "Off".	37
Wallpaper is not displayed even after the disc has been removed.	An internal error may have occurred in the unit. Set the power to standby, wait awhile, then turn the power back on.	–
Button operation does not work. The unit fails to operate.	Operations may not be permitted by the disc. Refer to the instructions of the disc.	3
	The protection circuit is active. In this case, disconnect the power plug from the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet.	8
The unit fails to read the disc.	The pickup lens may be dirty. Use a commercially available lens cleaner to clean the laser pickup. Avoid use of cleaners equipped with brushes, since they may scratch the lens.	–
Angle does not switch.	If a BD-Video or DVD-Video does not record multiple angles, angle cannot be switched. Also, multiple angles may be recorded for specific scenes.	19
Playback does not start when the title is selected.	Playback may be prohibited by the viewing restriction setting. Check "Parental" on the OSD menu.	37
The password for rating level has been forgotten.	The default setting is "3308".	–

[Radio]

Symptom	Cause/Solution	Page
Reception fails, or there is a lot of noise or distortion.	Change the antenna orientation or position.	10
	Separate the AM loop antenna from the unit.	10
	Use an FM outdoor antenna.	10
	Separate the antenna from other connection cables.	10

[USB memory device]

Symptom	Cause/Solution	Page
When a USB memory device is connected, "USB" is not displayed on the OSD menu.	The OSD screen is only displayed when a USB memory device is connected to the USB2 port on the rear panel. Set the input source to "DISC/USB2".	30
	The set cannot recognize a USB memory device. Check the connection.	25
	A USB memory device not conforming to mass storage class is connected. Connect a USB memory device conforming to mass storage class.	30
	A USB memory device cannot be connected via a USB hub.	29
Files on a USB memory device cannot be played.	Set the USB memory device format to "FAT16" or "FAT32" for USB1 port and "FAT32" for USB2 port. For details, refer to the USB memory device's operating instructions.	29, 30
	If the USB memory device is divided into multiple partitions, only files stored in the top partition can be played.	–
	The file is recorded in an incompatible format. Please record it in a compatible format.	29, 30
	This unit cannot play back files covered by copyright protection.	–
The sound quality is poor or there is noise during playback.	The file being played back has a low bit rate.	–
"Connection Error" is displayed.	Unable to communicate properly. Turn off the power to this unit, unplug the USB memory device and then plug it back in.	–
"Communication Error" is displayed.	The USB memory device is not responding. Turn off the power to this unit, unplug the USB memory device and then plug it back in.	–
"Overcurrent" is displayed.	The USB memory device is consuming too much power. When using a USB portable hard disk that can be powered by an AC adapter, connect its AC adapter.	–

[iPod]

Symptom	Cause/Solution	Page
iPod cannot be played.	- Check the iPod connections. - Plug the control dock for iPod's AC adapter into a power outlet. - Switch the input source to "USB1/iPod". - If using an iPod connected to the USB terminal, incompatible iPod types cannot be played back.	24, 25 – 28 28
The file names are not displayed properly ("...", etc.).	Characters that cannot be displayed on this unit are replaced by "." (period).	27, 28
"Connection Error" is displayed.	Unable to communicate properly. Turn off the power to this unit, disconnect the iPod and then reconnect it.	–
"Not Support" is displayed.	- The iPod connected to the unit is not compatible. Please make sure the iPod you are connecting is compatible. - The software version of the connected iPod is an old one. Please update to the latest version.	25 –
"Communication Error" is displayed.	The iPod is not responding. Turn off the power to this unit, disconnect the iPod and then reconnect it.	–

[Remote control unit]

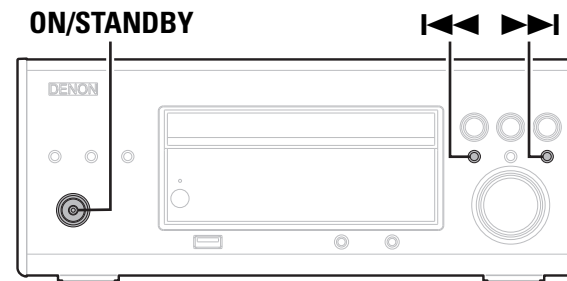
Symptom	Cause/Solution	Page
The set cannot be operated with the remote control unit.	Batteries are worn out. Replace with new batteries.	7
	Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°.	7
	Remove any obstacle between this unit and the remote control unit.	–
	Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks.	7
	The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.	–

NOTE

- Some function may not be used in some operation status and this is not failure of the unit. Read the description in this Owner's Manual for details on correct operations.
- The volume may differ from disc to disc. This is due to the differences in how the signals are recorded on the disc, and is not a malfunction.
- Some functions are prohibited on some discs.

Resetting the microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed. When the microprocessor is reset, all the settings are reset to their default values.



1 During standby, press **ON/STANDBY** while pressing **◀◀** and **▶▶** simultaneously.

2 Once the display starts flashing at intervals of about 1 second, release the two buttons.
"INITIALIZING" is displayed.



If "INITIALIZING" does not display in step 2, start over from step 1.

Specifications

Audio Section

Power amplifier

Rated output:	70 W + 70 W (1 kHz, 6 Ω, T.H.D. 10 %)
Output connectors:	6 – 16 Ω

Analog

Input sensitivity/Input impedance:	200 mV/47 kΩ
------------------------------------	--------------

Video Section

Video connectors

Output level and impedance:	1 Vp-p, 75 Ω
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Tuner section

	[FM]	[AM]
Reception frequency range:	87.50 MHz – 108.00 MHz	522 kHz – 1611 kHz
Sensitivity (T.H.D. 3 %, IHF):	6 dBμV	–
(S/N 30 dB):	–	60 dBμV/m
FM stereo separation:	35 dB (1 kHz)	

Applicable Discs :

BD-Video discs :	12 cm 1 side 1 layer, 12 cm 1 side 2 layers
DVD-Video discs :	12 cm 1 side 1 layer, 12 cm 1 side 2 layers/ 12 cm 2 sides 2 layers (1 side 1 layer) 8 cm 1 side 1 layer, 8 cm 1 side 2 layers/ 8 cm 2 sides 2 layers (1 side 1 layer)
Compact Discs (CD-DA) :	12 cm / 8 cm discs

General

Power supply:	AC 230 V, 50 Hz
Power consumption:	67 W 0.5 W (Normal standby)
Maximum external dimensions:	280 (W) x 112 (H) x 313 (D) mm
Weight:	4.6 kg

Remote Control Unit (RC-1153)

Batteries:	R6/AA Type (two batteries)
Maximum external dimensions:	53 (W) x 224 (H) x 28 (D) mm
Weight:	160 g (including batteries)

For purposes of improvement, specifications and design are subject to change without notice.

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Liesenkoetter	0037, 0012, 0327
Lifetec	0037, 0714, 0668, 1037, 0218, 0009, 0374, 0519, 0683, 2001
Lloyd's	0009
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Otto Versand	0556, 0037, 0195, 0361, 0036, 0226, 0552, 0535, 0512, 0349, 0343, 0294, 0247, 0235, 0217, 0109, 0093, 0010
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